

# AUDIO VIDEO SURROUND RECEIVER

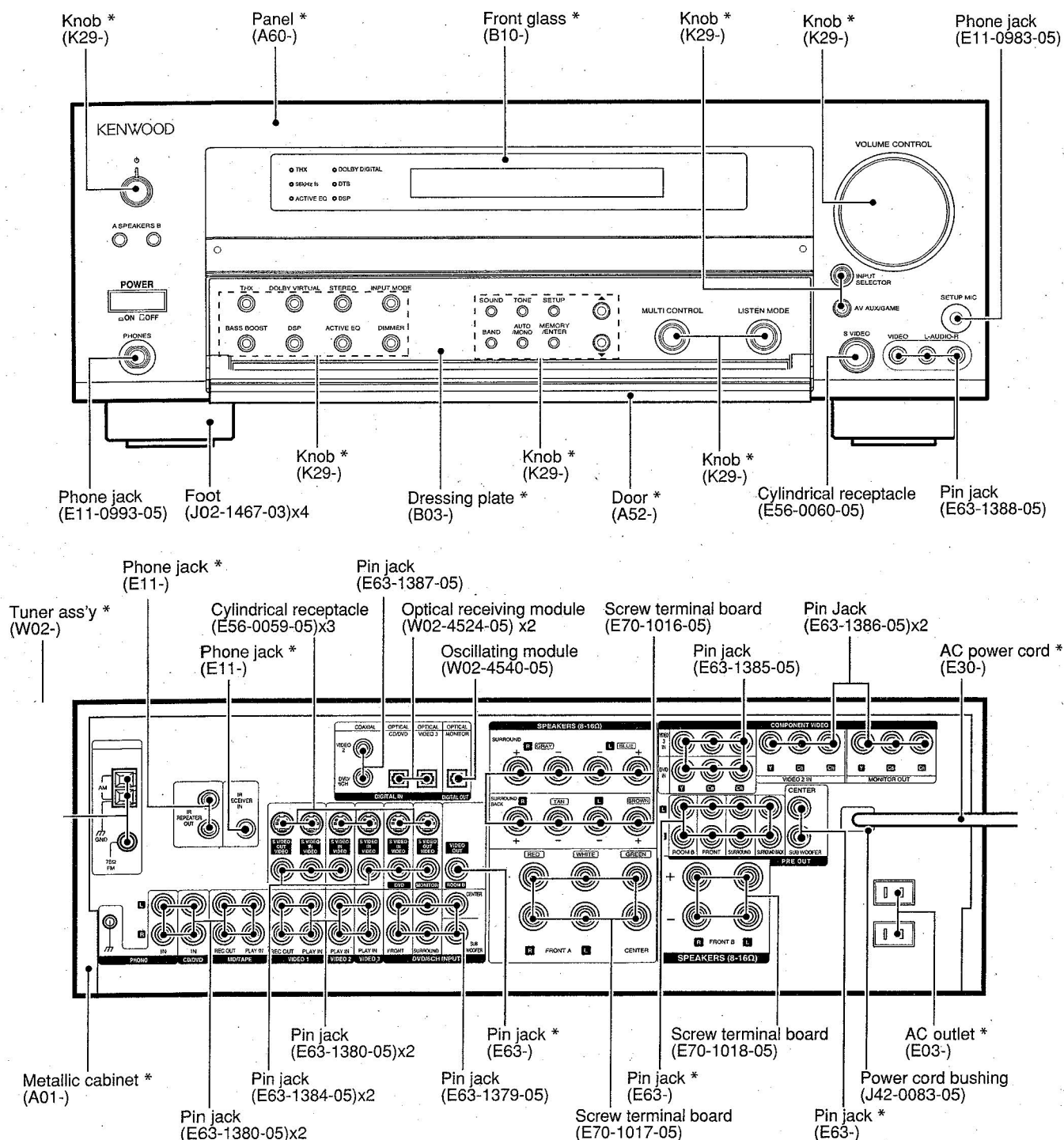
## KRF-V8090D/V8090D-S/X9090D/X9090D-S

## VR-9560/9560-S/9080/9080-S

# SERVICE MANUAL

# KENWOOD

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B51-5960-00 (K/K) 1455



Illust. is VR-9080.

\* Refer to parts list on page 33.

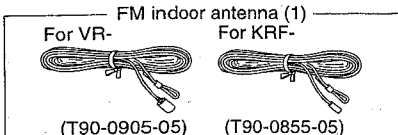
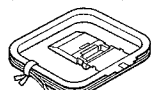
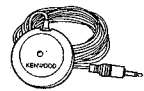

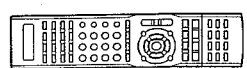
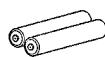
This product uses Lead Free solder.



# KRF-V8090D/X9090D/VR-9560/9080

## ACCESSORIES / CAUTIONS

### ACCESSORIES

 <p>FM indoor antenna (1) For VR- (T90-0905-05) For KRF- (T90-0855-05)</p>	 <p>AM loop antenna (1) (T90-0893-05)</p>	 <p>Microphone for SETUP (1) (Cord length: approx. 5m (16 feet)) (T29-0011-05)</p>	 <p>*AC plug adapter (1) (E03-0508-05)</p>
 <p>Remote control unit (1) (See the right table)</p>	 <p>Batteries (R03/AAA) (2)</p>	<p>*Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)</p>	

### PCB vs MODEL

MODEL	ABB.	PREAMP	AUDIO	SUB	DISPLAY
KRF-V8090D	E1	X08-3392-72	X09-6962-72	X13-7962-72	X14-7902-72
KRF-V8090D-S	E2		X09-6962-72		
KRF-V8090D-S	X2	X08-3390-71	X09-6960-72		X14-7900-72
KRF-X9090D	E3	X08-3392-73	X09-6962-72		X14-7902-73
KRF-X9090D	Y3	X08-3392-91	X09-6960-72		X14-7902-91
KRF-V8090D-S	E4	X08-3392-73	X09-6962-72	X13-7962-73	X14-7902-73
KRF-X9090D-S	X4	X08-3390-13	X09-6960-72		X14-7900-73
KRF-X9090D-S	Y4	X08-3392-91			X14-7902-91
VR-9080	K5,P5	X08-3390-13	X09-6960-11	X13-7960-13	X14-7900-13
VR-9080-S	K6,P6				
VR-9560	K7,P7			X13-7960-14	X14-7980-10
VR-9560-S	K8,P8				

### REMOTE CONTROL vs MODEL

MODEL	DESTINATION	PARTS #	CONTROLL #
KRF-V8090D	E	A70-1672-05	RC-R0829E
KRF-V8090D-S	E	A70-1672-05	RC-R0829E
KRF-V8090D-S	X	A70-1672-05	RC-R0829E
KRF-X9090D	E	A70-1676-05	RC-R0918E
KRF-X9090D	Y	A70-1675-05	RC-R0918
KRF-X9090D-S	E	A70-1676-05	RC-R0918E
KRF-X9090D-S	X	A70-1676-05	RC-R0918E
KRF-X9090D-S	Y	A70-1675-05	RC-R0918
VR-9080	K,P	A70-1675-05	RC-R0918
VR-9080-S	K,P	A70-1675-05	RC-R0918
VR-9560	K,P	A70-1671-05	RC-R0829
VR-9560-S	K,P	A70-1671-05	RC-R0829



6CH INPUT

### CAUTIONS

#### Resetting the Microcomputer

The microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

#### For the U.S.A. and Canada

Unplug the power cord from the wall outlet, then plug it back in while holding down the **⏻ (POWER ON/STANDBY)** key.

#### For other countries

With the power cord plugged in, turn the **POWER ON/OFF** key OFF. Then, while holding down the **⏻ (POWER ON/STANDBY)** key, press **POWER ON/OFF** key.

#### Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 1 day.

- |                             |                       |
|-----------------------------|-----------------------|
| • Power mode                | • Speaker settings    |
| • Input selector settings   | • Input mode setting  |
| • Speaker ON/OFF            | • Sound mode settings |
| • Volume level              | • Broadcast band      |
| • BASS, TREBLE, INPUT level | • Frequency setting   |
| • TONE ON/OFF               | • Preset stations     |
| • LOUDNESS ON/OFF           | • Tuning mode         |
| • Dimmer level              | • ACTIVE EQ mode      |
| • Listen mode setting       | • GAME mode setting   |

# KRF-V8090D/X9090D/VR-9560/9080

## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT SETTINGS	ALIGNMENT POINTS	FIG.
AUDIO SECTION		SPEAKER : A					
<1>	IDLE CURRENT *		CN11, FL ch. CN10, FR ch. CN14, SL ch. CN13, SR ch. CN12, C ch. CN15, SBL ch. X09(A/4)  CN706, SBR ch. X13(F/6)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) VR6(SBL) X09(A/4)  VR702(SBR) X13(F/6)	Adjust every potentiometer 10 minutes later after turned the power on.	

### \* Idling Current Adjustment

All power amplifier stage need idling current adjustment after the installation of TRAIT transistor.

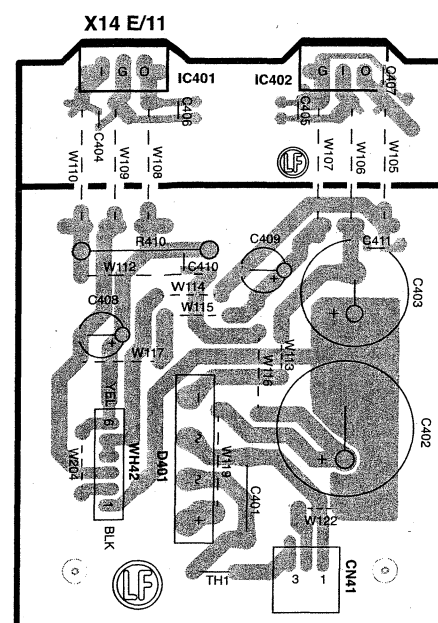
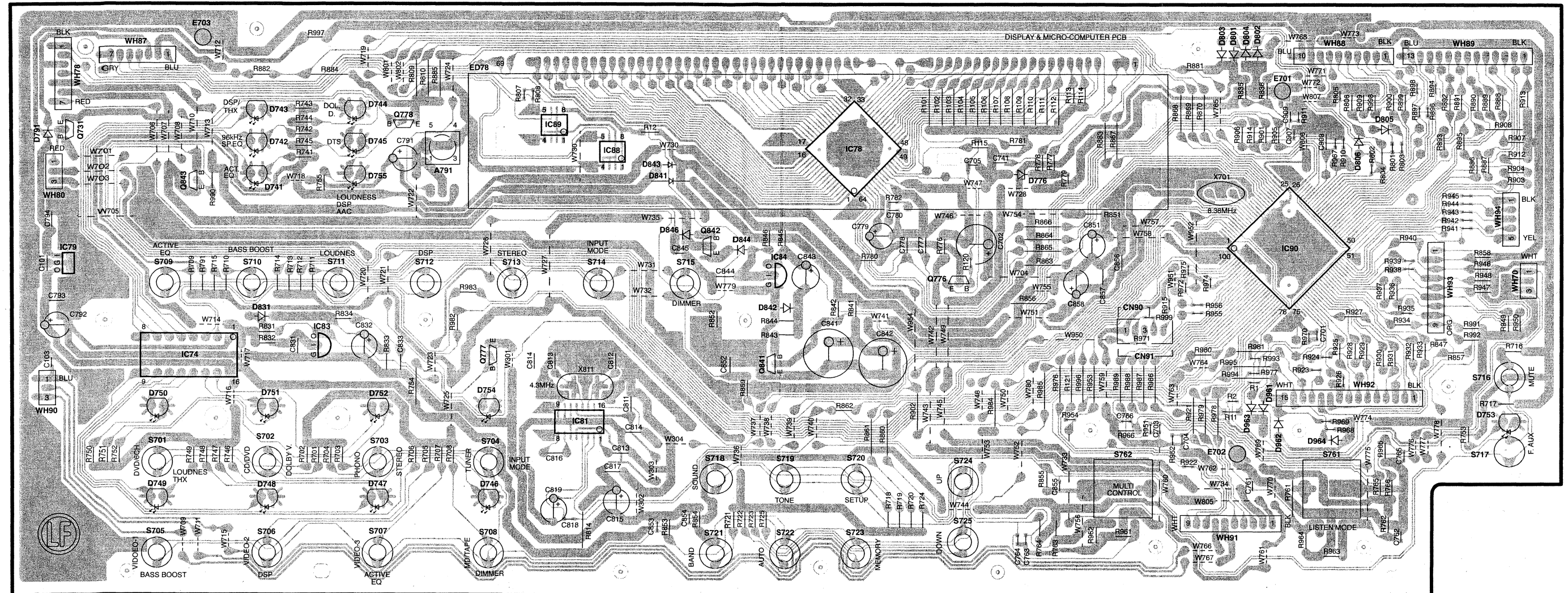
1. Connect a voltmeter to CNs with the correct polarity as indicated by the PCB silk print.
2. Adjust the preset, VRs to get 8.8mV (Idling current = 20mA) at the voltmeter reading.
3. Repeat step few times for all channels.



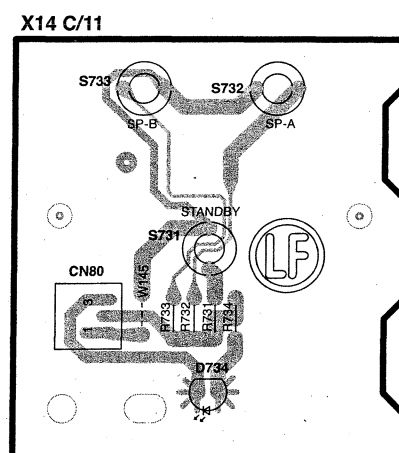


F	G	H	I	J	K	L	M	N	O
---	---	---	---	---	---	---	---	---	---

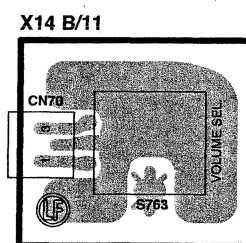
**X14-7900-13 & X14-7980-10 A/11 (J75-0061-31)**



X14 D/11



**X14 C/11**

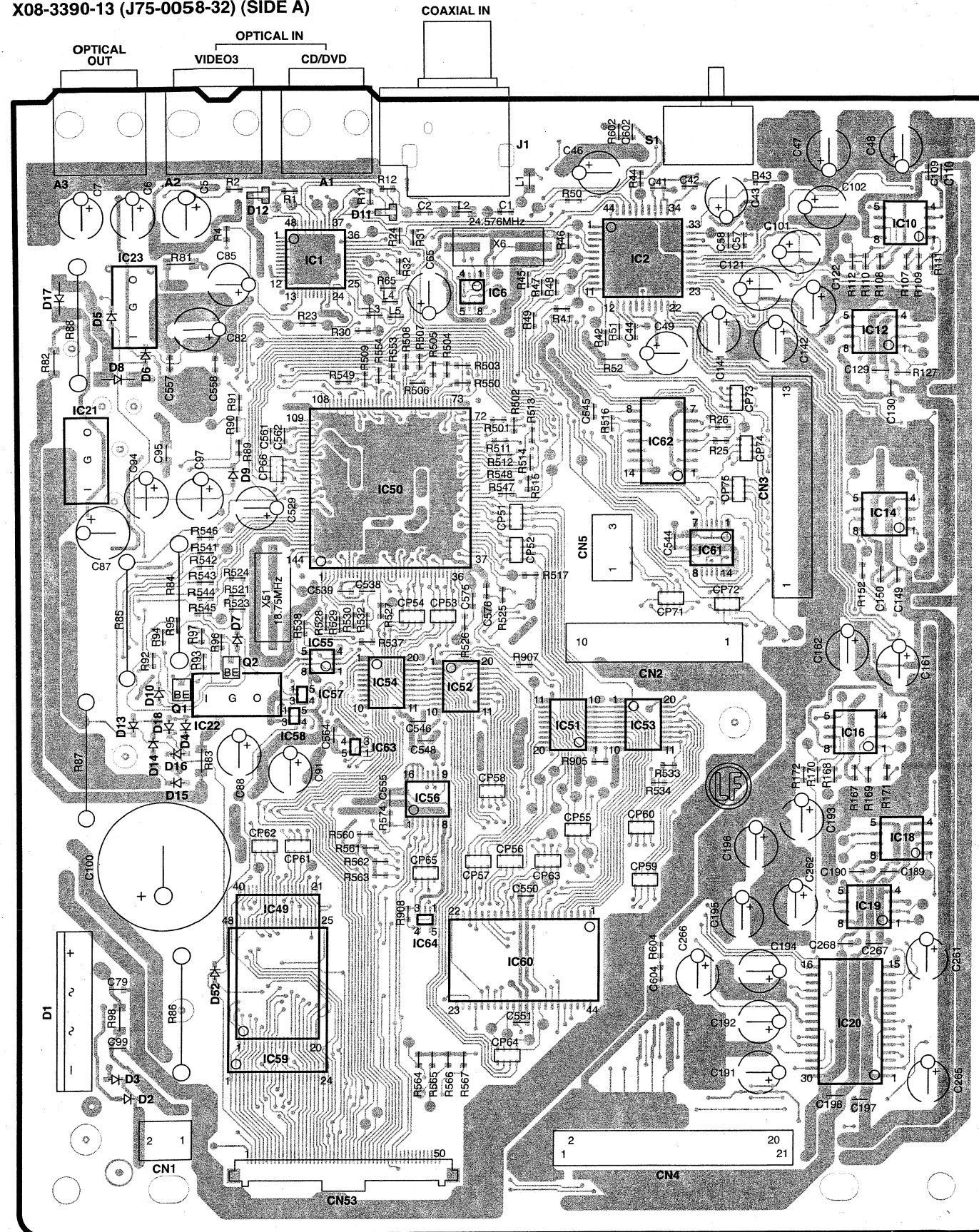


**X14 B/11**

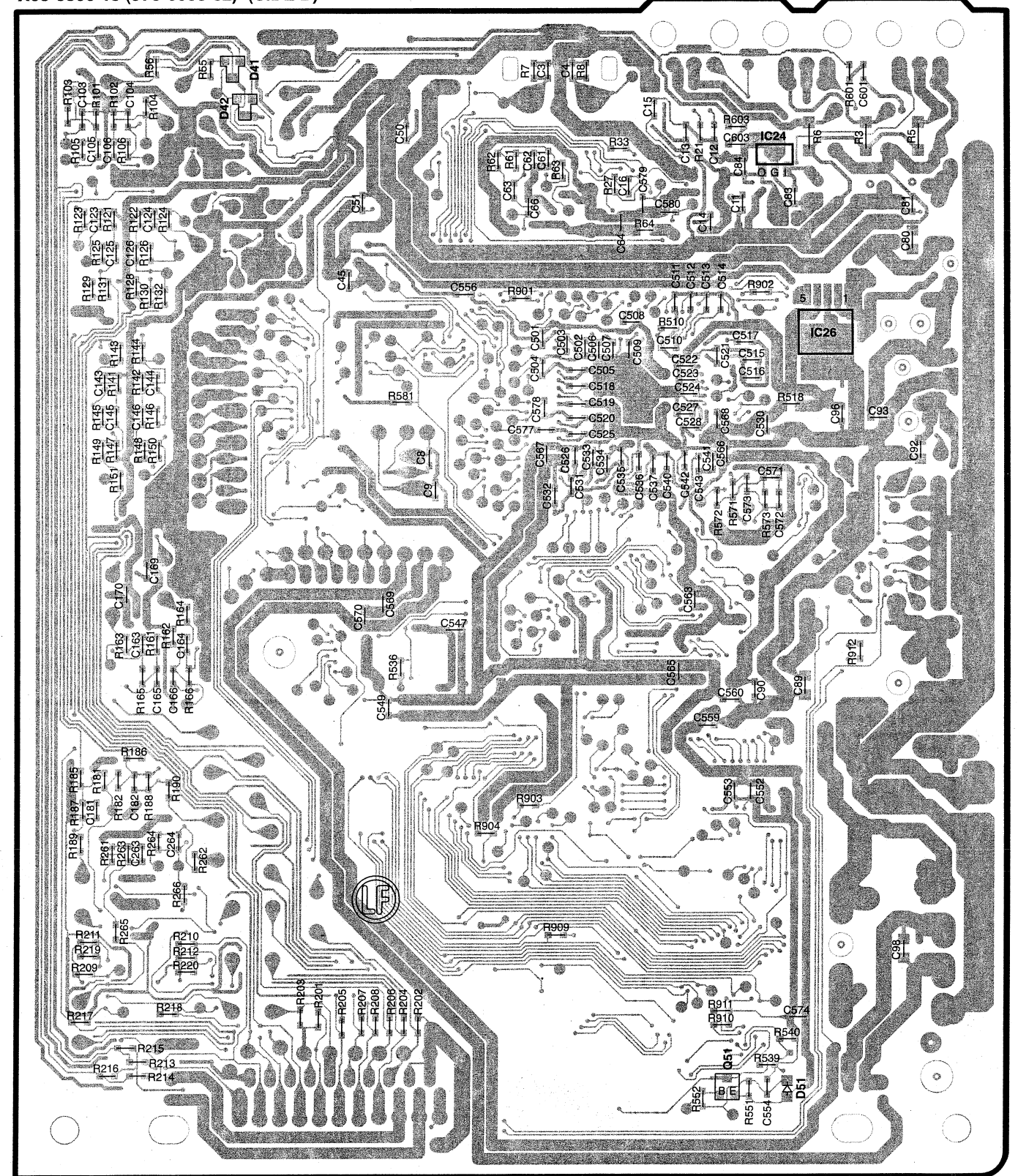


## PC BOARD

X08-3390-13 (J75-0058-32) (SIDE A)



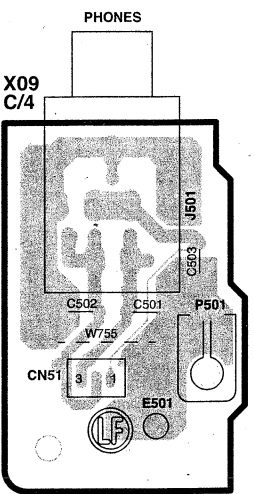
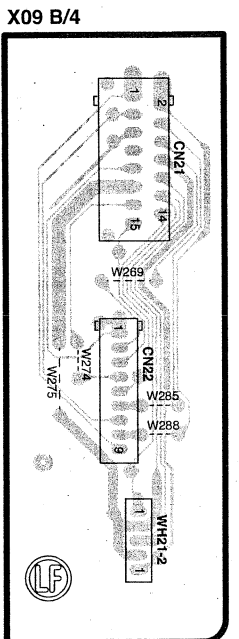
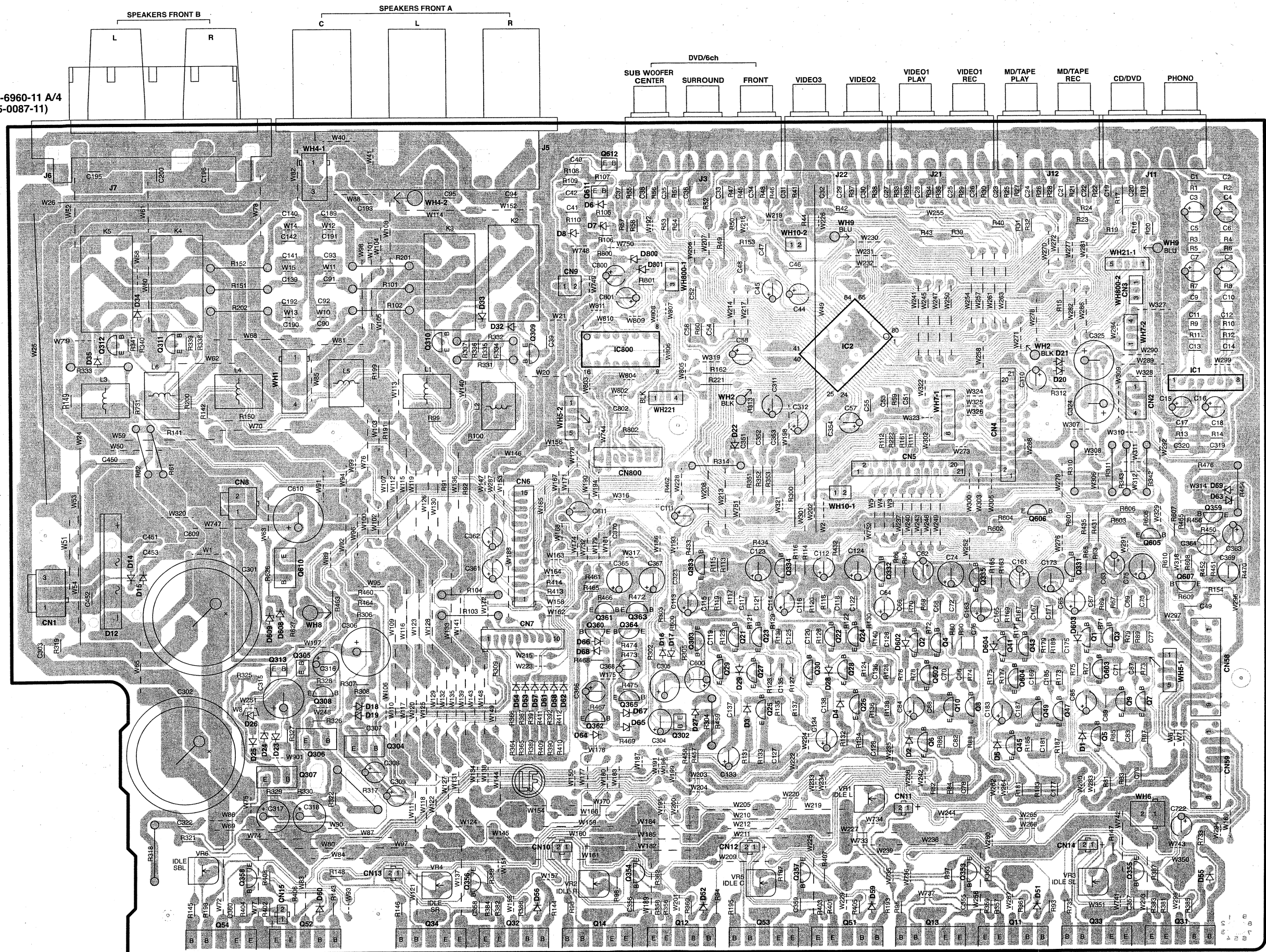
X08-3390-13 (J75-0058-32) (SIDE B)





# PC BOARD

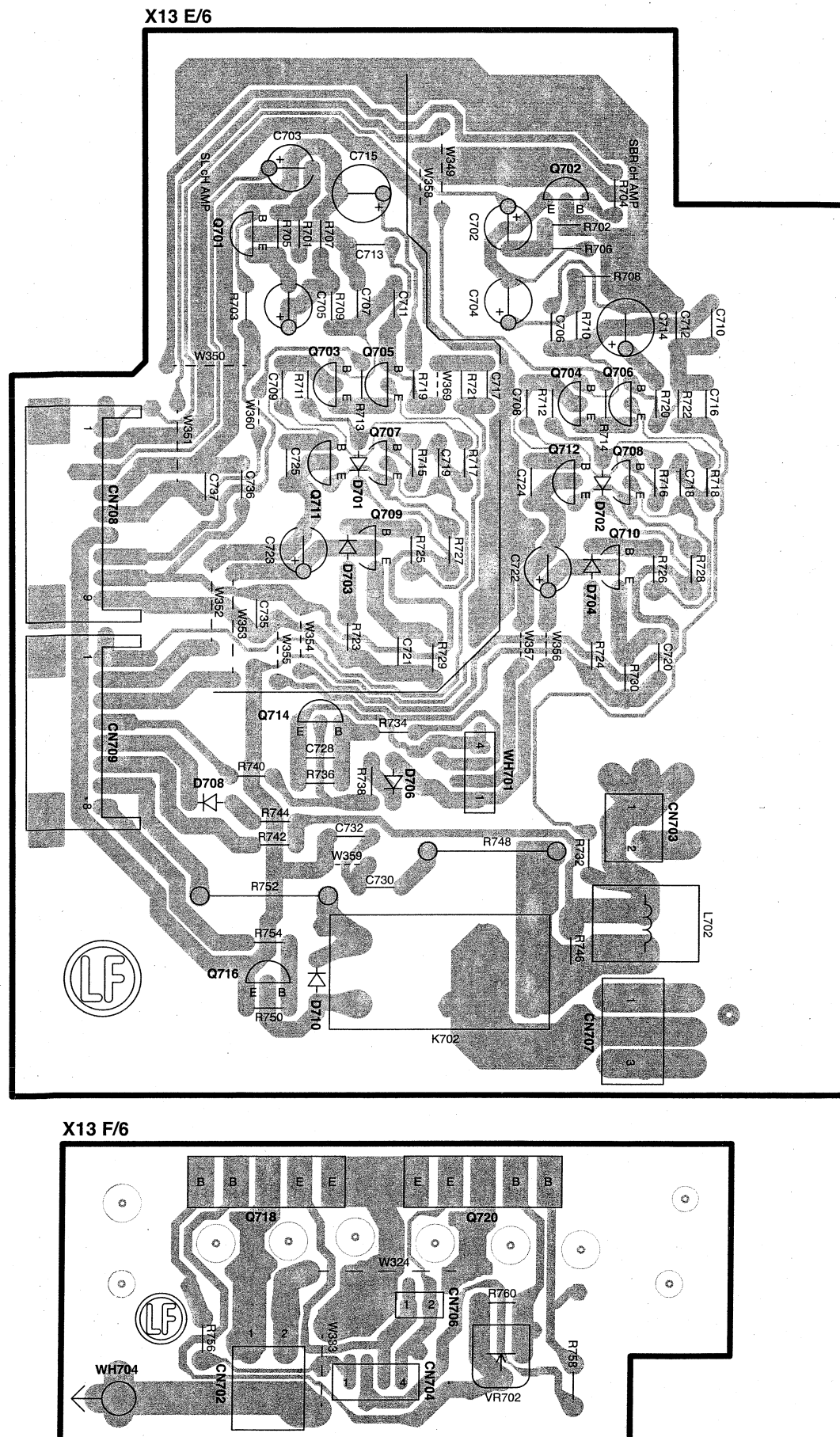
X09-6960-11 A/4  
(J75-0087-11)



Refer to the schematic diagram for the value of resistors and capacitors.



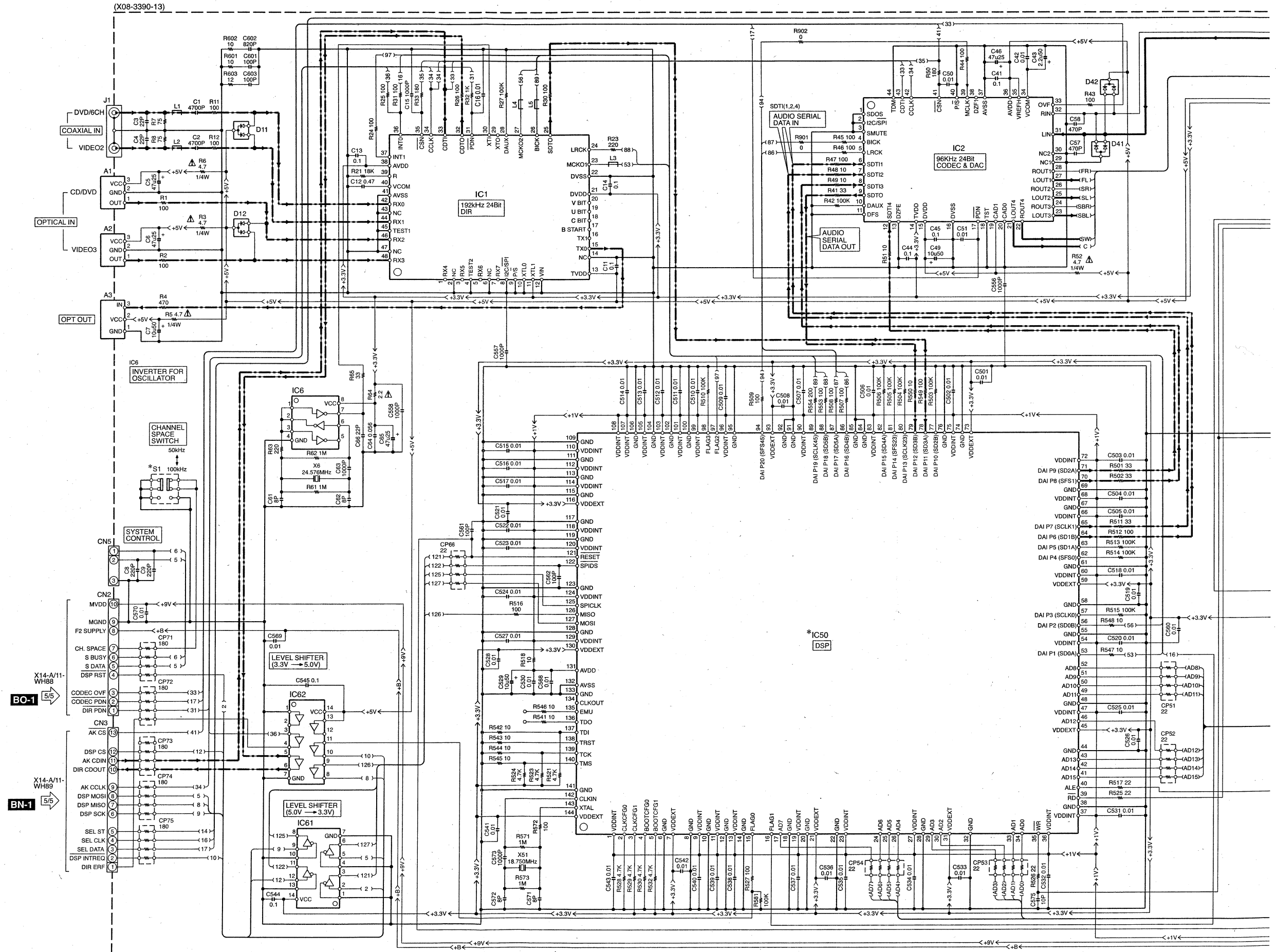
## PC BOARD





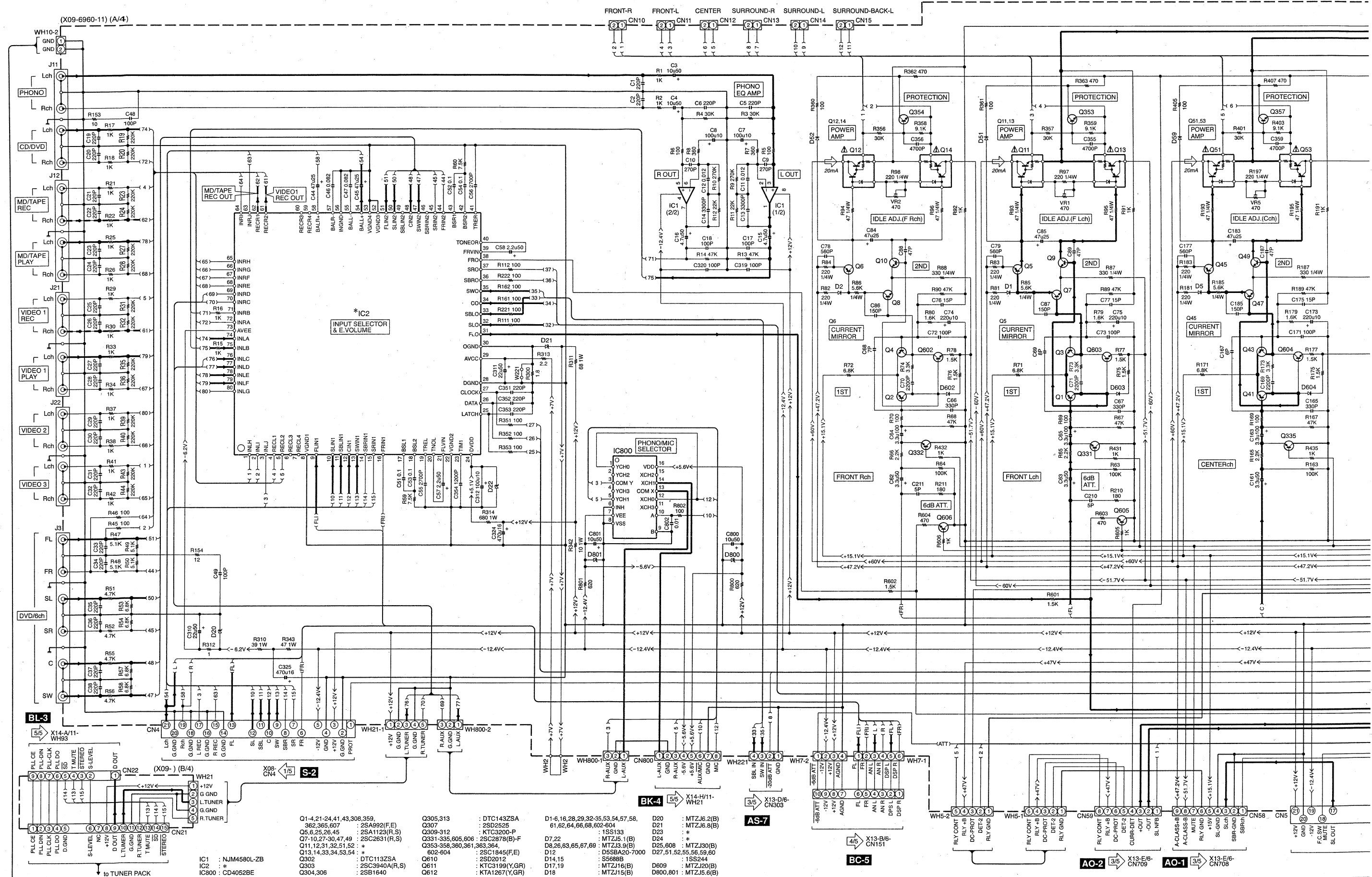


# KRF-V8090D/X9090D/VR-9560/9080





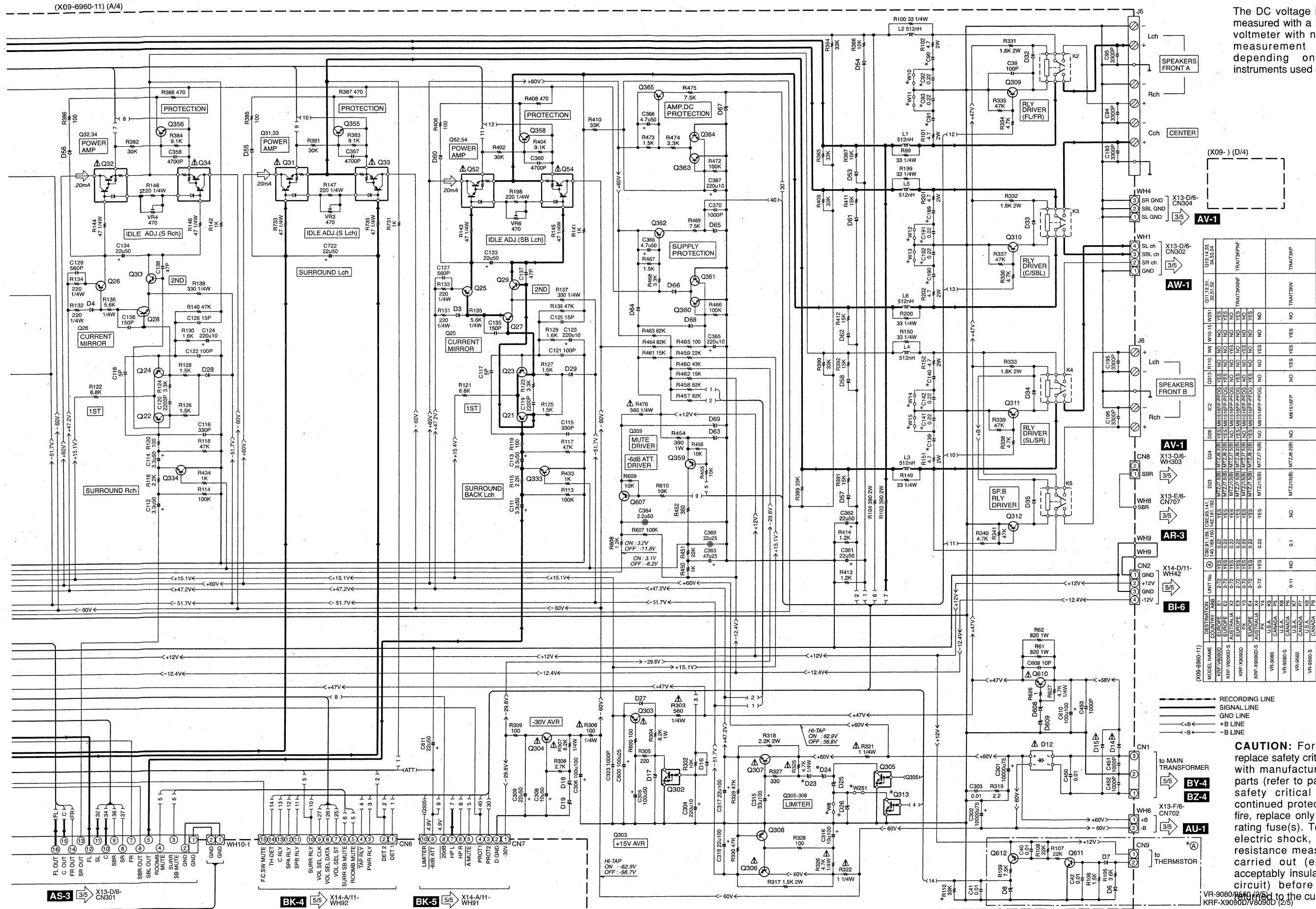
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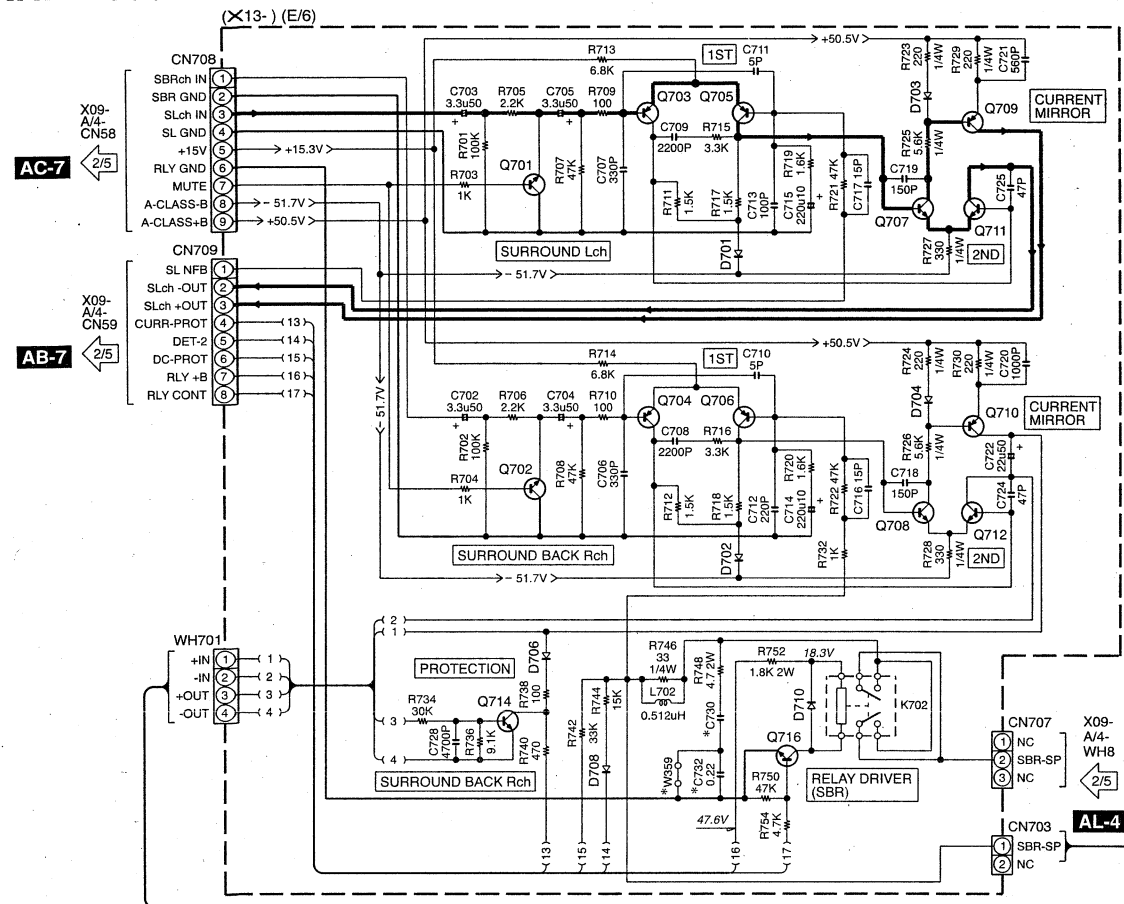


**KRF-V8090D/X9090D/VR-9560/9080**

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



## KRF-V8090D/X9090D/VR-9560/9080



(X13-7960-13)

MODEL NAME	DESTINATION	COUNTRY	ABB	UNIT No.	(D)	(E)	(F)	C730	C732	J305	R401	W359	Q718	Q720
KRF-V8090D	EUROPE	E1		2-72	NO	0.22	YES	YES	100K	NO				
KRF-V8090D-S	AUSTRALIA	X2		2-72	NO	0.22	YES	YES	100K	NO				
KRF-X9090D	EUROPE	E3		2-73	YES	0.22	YES	NO	18K	NO			TRAIT3KNNF	TRAIT3KPNF
KRF-X9090D-S	EUROPE	E4		2-73	YES	0.22	YES	NO	18K	NO				
VR-9080	U.S.A.	K5		0-13	YES	0.1	NO	NO	18K	YES				
VR-9080-S	CANADA	P5		0-13	YES	0.1	NO	NO	18K	YES				
VR-9560	U.S.A.	K6		0-14	NO	0.1	NO	YES	100K	YES			TRAIT3KN	TRAIT3KP
VR-9560-S	CANADA	P6		0-14	NO	0.1	NO	YES	100K	YES				
	U.S.A.	K7												
	CANADA	P7												
	U.S.A.	K8												
	CANADA	P8												

IC401-404 : RC45801P

Q301-320,403-408,411, 412,701,702 : 2SC2678(B)-F  
 Q401,402,410 : DTA124EUA  
 Q409 : KRA103M  
 Q703-706 : 2SA992(F,E)  
 Q707,708,711,712 : 2SC2631(R,S)  
 Q709,710 : 2SA1123(R,S)  
 Q714 : 2SC1845(F,E)  
 Q716 : KTC3200  
 Q718 : \*  
 Q720 : \*

D401 : MTZJ3.9(B)  
 D402 : MTZJ5.1(B)  
 D701-704,708,710 : 1SS133  
 D706 : 1SS244

SIGNAL LINE  
 GND LINE  
 +B LINE  
 -B LINE

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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Z-6

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

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SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

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SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

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SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

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X09-A/4-2/5

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X09-A/4-2/5

CN303

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X09-A/4-2/5

CN303

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SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

20dB ATT

SW IN

SBL IN

X09-A/4-2/5

CN303

GND

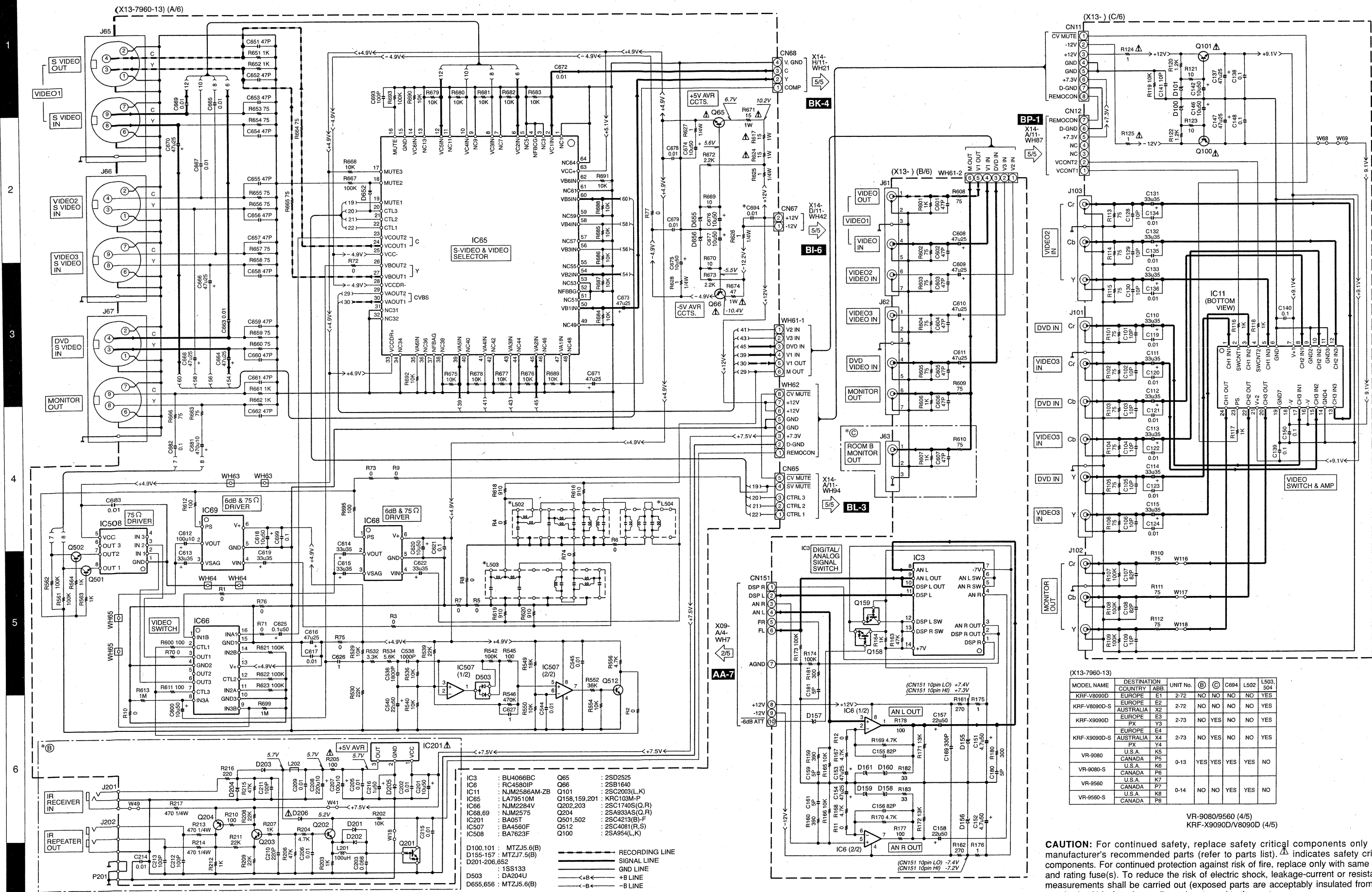
20dB ATT

SW IN

SBL IN

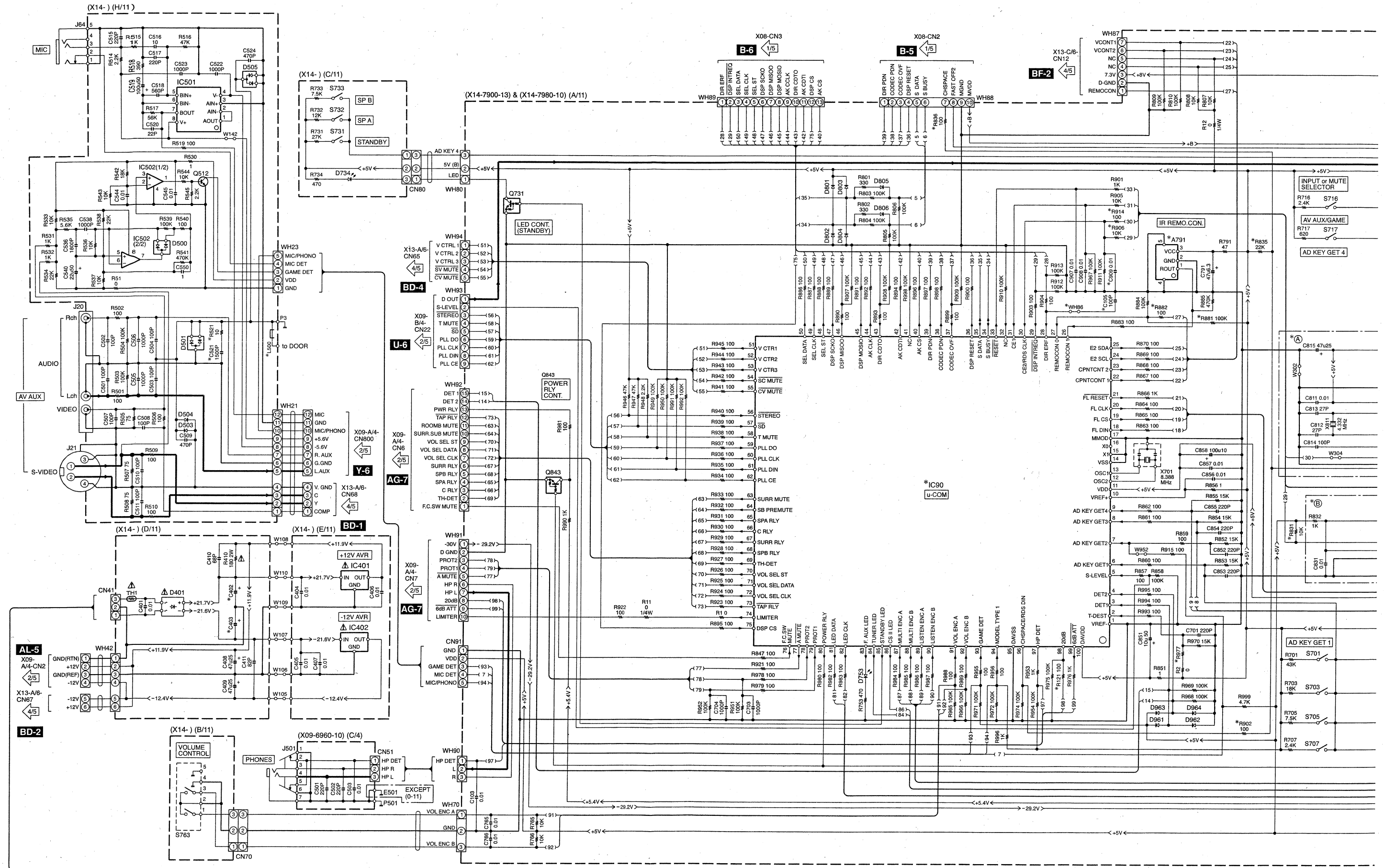
X09-A/4-2/5

## KRF-V8090D/X9090D/VR-9560/9080



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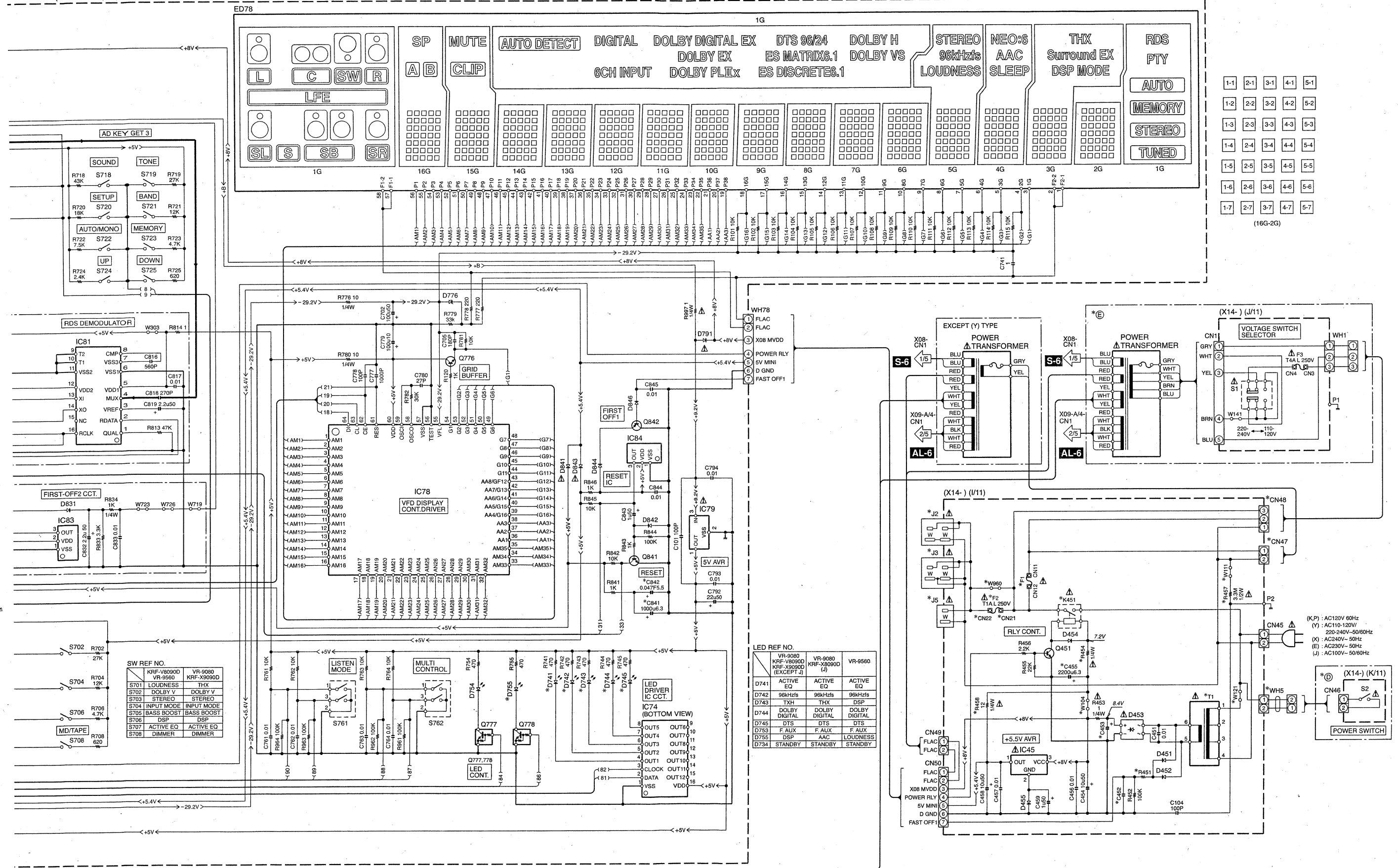
# KRF-V8090D/X9090D/VR-9560/9080





## KRF-V8090D/X9090D/VR-9560/9080

(X14-7900-13) &amp; (X14-7980-10) (A/11)



ANODE CONNECTION									
	1G	2G	3G	4G	5G	6-14G	15G	16G	
P1	L	1-1	1-1	1-1	1-1	1-1	1-1	1-1	
P2	C	2-1	2-1	2-1	2-1	2-1	2-1	2-1	
P3	R	3-1	3-1	3-1	3-1	3-1	3-1	3-1	
P4	SR	4-1	4-1	4-1	4-1	4-1	4-1	4-1	
P5	SB	5-1	5-1	5-1	5-1	5-1	5-1	5-1	
P6	SL	1-2	1-2	1-2	1-2	1-2	1-2	1-2	
P7	S	2-2	2-2	2-2	2-2	2-2	2-2	2-2	
P8	SW	3-2	3-2	3-2	3-2	3-2	3-2	3-2	
P9	LFE	4-2	4-2	4-2	4-2	4-2	4-2	4-2	
P10	(L)	5-2	5-2	5-2	5-2	5-2	5-2	5-2	
P11	(C)	1-3	1-3	1-3	1-3	1-3	1-3	1-3	
P12	(R)	2-3	2-3	2-3	2-3	2-3	2-3	2-3	
P13	(SR)	3-3	3-3	3-3	3-3	3-3	3-3	3-3	
P14	(SBR)	4-3	4-3	4-3	4-3	4-3	4-3	4-3	
P15	(SBL)	5-3	5-3	5-3	5-3	5-3	5-3	5-3	
P16	(SL)	1-4	1-4	1-4	1-4	1-4	1-4	1-4	
P17	(SW)	2-4	2-4	2-4	2-4	2-4	2-4	2-4	
P18	AUTO DETECT	3-4	3-4	3-4	3-4	3-4	3-4	3-4	
P19	DIGITAL	4-4	4-4	4-4	4-4	4-4	4-4	4-4	
P20	6CH INPUT	5-4	5-4	5-4	5-4	5-4	5-4	5-4	
P21	DOLBY DIGITAL	1-5	1-5	1-5	1-5	1-5	1-5	1-5	
P22	(DOLBY DIGITAL) EX	2-5	2-5	2-5	2-5	2-5	2-5	2-5	
P23	DOLBY EX	3-5	3-5	3-5	3-5	3-5	3-5	3-5	
P24	DOLBY PL	4-5	4-5	4-5	4-5	4-5	4-5	4-5	
P25	II	5-5	5-5	5-5	5-5	5-5	5-5	5-5	
P26	X	1-6	1-6	1-6	1-6	1-6	1-6	1-6	
P27	DTS	2-6	2-6	2-6	2-6	2-6	2-6	2-6	
P28	96/24	3-6	3-6	3-6	3-6	3-6	3-6	3-6	
P29	ES MATRIX6.1	4-6	4-6	4-6	4-6	4-6	4-6	4-6	
P30	ES DISCRETE6.1	5-6	5-6	5-6	5-6	5-6	5-6	5-6	
P31	DOLBY H	1-7	1-7	1-7	1-7	1-7	1-7	1-7	
P32	DOLBY VS	2-7	2-7	2-7	2-7	2-7	2-7	2-7	
P33	RDS	3-7	3-7	3-7	3-7	3-7	3-7	3-7	
P34	PTY	4-7	4-7	4-7	4-7	4-7	4-7	4-7	
P35	AUTO	5-7	5-7	5-7	5-7	5-7	5-7	5-7	
P36	MEMORY	THX	NEO:6	STEREO	MUTE	SP			
P37	STEREO	Surround EX	AAC	96kHzfs	CLIP	A			
P38	TUNED	DSP MODE	SLEEP	LOUDNESS		B			

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IC45 : BA05T  
IC74 : BU2090  
IC78 : LC17511NED-E  
IC79 : XC6202P502PR  
IC81 : BU1924F  
IC83 : S-80840CNY-GZ  
IC84 : S-80840CNY-GZ  
IC90 :  
IC401 : KIA7812API-UP  
IC402 : KIA7912API-UP  
IC501,502 : BA4560F  
Q451,776,841 : 2SC1740S(Q,R)  
Q512 : 2SC4081(R,S)  
Q731,843 : DTC1132SA  
Q777,778 : DTC124ESA  
Q842 : 2SA933AS(Q,R)  
D401 : D2SBA207009F01  
D451,452,454,501-504, 791,801-806,831,842,844, 846,961-964 : 1SS133  
D453 : S1ZB20(7101)  
D455,841,843 : RB721Q  
D500,505 : 1SS302  
D734,753 : B30-2545-05  
D741-745,755 : B30-2651-05  
D754 : MTZJ5.1(B)  
D776 : MF-R090-99  
TH1 : MF-R090-99

RECORDING LINE  
SIGNAL LINE  
GND LINE  
+B LINE  
-B LINE

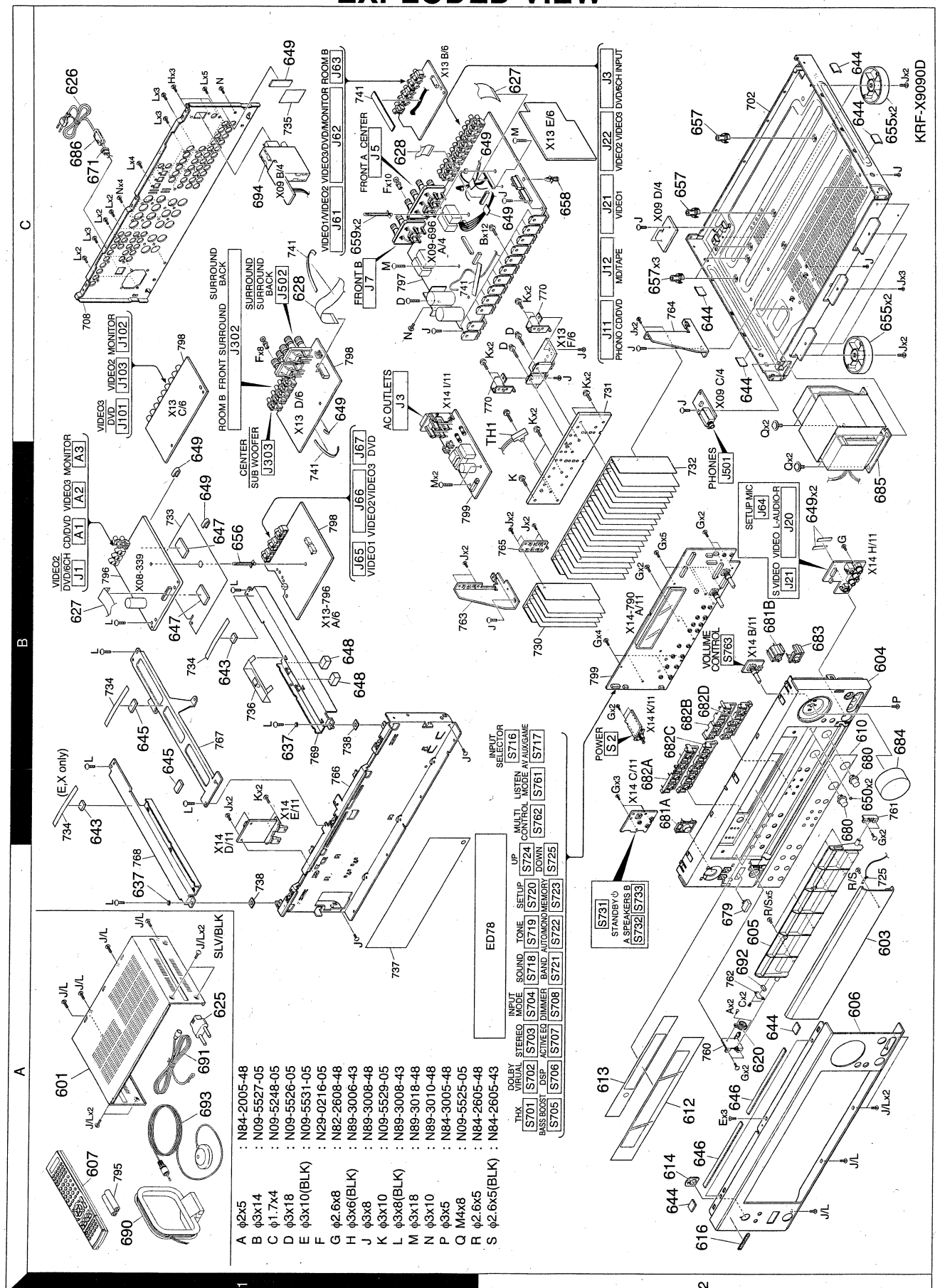
(X14-7900-13)

MODEL NAME	DESTINATION COUNTRY	UNIT No.	(A)	(B)	(E)	(D)	A791	C105	C402	C403	C452	C453	C455, 909	C521, 841	C842	CN21, 22	CN47	CN48	D741-745, 755	F1	F2
KRF-V8090D	EUROPE	E1	X14-7902-72	YES	NO	YES	YES	YES	2200u25	1000u25	0.039	3300u25	NO	NO	YES	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05
KRF-V8090D-S	EUROPE	E2	X14-7902-72	YES	NO	YES	YES	YES	2200u25	1000u25	0.039	3300u25	NO	NO	YES	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05
KRF-V8090D-S	AUSTRALIA	X2	X14-7902-72	YES	NO	YES	YES	YES	2200u25	1000u25	0.047	3300u25	NO	NO	YES	YES	YES	NO	B30-2545-05	F05-4025-05	F06-1022-05
KRF-X9090D	EUROPE	E3	X14-7902-73	YES	NO	YES	YES	YES	2200u25	1000u25	0.039	3300u25	NO	NO	YES	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05
KRF-X9090D-S	EUROPE	E4	X14-7902-73	YES	NO	YES	YES	YES	2200u25	1000u25	0.039	3300u25	NO	NO	YES	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05
KRF-X9090D-S	AUSTRALIA	X4	X14-7900-73	YES	NO	YES	YES	YES	2200u25	1000u25	0.047	3300u25	NO	NO	YES	YES	YES	NO	B30-2545-05	F05-4025-05	F06-1022-05
KRF-X9090D-S	U.S.A.	K5	X14-7902-91	YES	NO	YES	YES	YES	2200u25	1000u25	0.068	3300u25	YES	NO	YES	YES	YES	NO	B30-2545-05	F05-4025-05	F06-1022-05
VR-9080	CANADA	P5	X14-7900-13	NO	NO	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	YES	NO	NO	YES	NO	B30-2545-05	F50-0078-05	F50-0220-05
VR-9080-S	U.S.A.	K6	X14-7900-13	NO	NO	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	YES	NO	NO	YES	NO	B30-2545-05	F50-0078-05	F50-0220-05
VR-9560	CANADA	P6	X14-7900-10	NO	NO	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	YES	NO	NO	YES	NO	B30-2545-05	F50-0078-05	F50-0220-05
VR-9560-S	U.S.A.	K7	X14-7900-10	NO	NO	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	YES	NO	NO	YES	NO	B30-2545-05	F50-0078-05	F50-0220-05
VR-9560-S	CANADA	P7	X14-7900-10	NO	NO	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	YES	NO	NO	YES	NO	B30-2545-05	F50-0078-05	F50-0220-05

	UNIT No.	IC90	J2	J3	J5	K451	L500	R121	R451	R454	R457, 521	R458,831, 835,836,906	R881, 882	R902	R914	R977	T1	W104	W111, 121	W860	WH5	WH86	
E1	X14-7902-72	MN101C49HYH	NO	YES	NO	S76-0110-05	NO	NO	150K	27	NO	NO	NO	YES	YES	27K	L07-2761-05	YES	NO	NO	YES	YES	
E2	X14-7902-72	MN101C49HYH	NO	YES	NO	S76-0110-05	NO	NO	150K	27	NO	NO	NO	YES	YES	27K	L07-2761-05	YES	NO	NO	YES	YES	
X2	X14-7900-72	MN101C49HYH	NO	NO	YES	S76-0110-05	NO	NO	150K	27	NO	NO	NO	NO	YES	YES	27K	L07-2758-05	YES	NO	NO	YES	NO
E3	X14-7902-73	MN101C49HYH	NO	YES	NO	S76-0110-05	NO	YES	150K	27	NO	NO	NO	NO	YES	YES	27K	L07-2761-05	YES	NO	NO	YES	YES
Y3	X14-7902-91	MN101C49HYF	YES	NO	NO	S76-0110-05	NO	YES	18K	15	NO	YES	NO	NO	YES	YES	12K	L07-2805-05	YES	NO	NO	YES	NO
E4	X14-7902-73	MN101C49HYF	NO	YES	NO	S76-0110-05	NO	YES	150K	27	NO	NO	NO	NO	YES	YES	27K	L07-2761-05	YES	NO	NO	YES	YES
X4	X14-7900-73	MN101C49HYF	NO	NO	YES	S76-0110-05	NO	YES	150K	27	NO	NO	NO	NO	YES	YES	27K	L07-2758-05	YES	NO	NO	YES	YES
Y4	X14-7902-91	MN101C49HYF	YES	NO	NO	S76-0110-05	NO	YES	18K	15	NO	YES	NO	NO	YES	YES	12K	L07-2805-05	YES	NO	NO	YES	NO
K5																							
P5	X14-7900-13	MN101C49HYF	YES	NO	NO	S76-0107-05	YES	YES	39K	27	YES	NO	YES	NO	NO	NO	L07-2809-05	YES	YES	YES	NO	NO	
K6																							
P6																							
K7																							
P7																							
K8	X14-7980-10	MN101C49HYF	YES	NO	NO	S76-0107-05	YES	NO	39K	27	YES	NO	NO	NO	NO	NO	L07-2809-05	YES	YES	YES	NO	NO	
P8																							

VR-9080/9560 (5/5)  
KRF-X9090D/V8090D (5/5)

## EXPLODED VIEW



# KRF-V8090D/X9090D/VR-9560/9080

## PARTS LIST

\* New Parts  
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Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
645	1B		G11-2886-04	CUSHION		
646	2A		G11-2887-04	CUSHION		
647	1B		G11-2916-04	CUSHION		
648	1B		G11-2958-04	CUSHION		
649	1B,1C		G11-2959-04	CUSHION		
650	2B		G11-2968-04	CUSHION	K5P5K7	
650	2B		G11-2968-04	CUSHION	P7	
650	2B		G11-2969-04	CUSHION	K6P6K8	
650	2B		G11-2969-04	CUSHION	P8	
655	2C		J61-0307-05	WIRE BAND		
656	1B		J02-1467-03	UNIT HOLDER		
657	2C		J19-5915-05	UNIT HOLDER		
658	2C		J19-6002-04	UNIT HOLDER		
659	1C		J19-6089-05	UNIT HOLDER		
671	1C		J42-0083-05	POWER CORD BUSHING		
680	2B		K29-8432-04	KNOB	K5P5K7	
680	2B		K29-8432-04	KNOB	P7	
680	2B		K29-8433-04	KNOB	K6P6K8	
680	2B		K29-8433-04	KNOB	P8	
681	2B		K29-8434-13	KNOB	K6P6K8	
681	2B		K29-8434-13	KNOB	P8	
681	2B		K29-8446-13	KNOB	K5P5K7	
682	2B		K29-8446-13	KNOB	P7	
682	2B		K29-8435-11	KNOB	K5P5K7	
682	2B		K29-8435-11	KNOB	P7	
682	2B		K29-8436-11	KNOB	K6P6K8	
682	2B		K29-8436-11	KNOB	P8	
683	2B		K29-8437-14	KNOB ASSY	K5P5K7	
683	2B		K29-8437-14	KNOB ASSY	P7	
683	2B		K29-8439-14	KNOB ASSY	K6P6K8	
683	2B		K29-8439-14	KNOB ASSY	P8	
684	2B		K29-8444-04	KNOB	K5P5K7	
684	2B		K29-8444-04	KNOB	P7	
684	2B		K29-8445-04	KNOB	K6P6K8	
684	2B		K29-8445-04	KNOB	P8	
685	2B		L07-3285-15	POWER TRANSFORMER		
A			N84-2005-48	PAN HEAD TAPTITE SCREW		
G			N82-2608-48	BINDING HEAD TAPTITE SCREW		
J			N89-3008-48	BINDING HEAD TAPTITE SCREW		
M			N89-3018-48	BINDING HEAD TAPTITE SCREW		
N			N89-3010-48	BINDING HEAD TAPTITE SCREW		
P			N84-3005-48	PAN HEAD TAPTITE SCREW		
R			N84-2605-48	PAN HEAD TAPTITE SCREW		
R			N84-2605-48	PAN HEAD TAPTITE SCREW		
690	1A		T90-0893-05	LOOP ANTENNA		
691	1A		T90-0905-05	LEAD WIRE ANTENNA		
692	2A		T99-0672-05	MAGNET		
693	1A		T29-0011-05	MICROPHONE UNIT		
Q11, 12			TRAIT3KN	TRANSISTOR		
Q13, 14			TRAIT3KP	TRANSISTOR		
Q31, 32			TRAIT3KN	TRANSISTOR		
Q33, 34			TRAIT3KP	TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
<b>VR-9080/9560</b>						
601	1A		A01-3950-01	METALLIC CABINET	K5P5K7	
601	1A		A01-3950-01	METALLIC CABINET	P7	
601	1A		A01-3951-01	METALLIC CABINET	K6P6K8	
603	2A		A21-5486-02	DRESSING PANEL	P8	
603	2A		A21-5487-02	DRESSING PANEL	K7P7	
603	2A		A21-5500-02	DRESSING PANEL	K8P8	
603	2A		A21-5501-02	DRESSING PANEL	K5P5	
604	2B		A22-1906-11	SUB PANEL	K6P6	
604	2B		A22-1906-11	SUB PANEL	K5P5K7	
604	2B		A22-1907-11	SUB PANEL	P7	
604	2B		A22-1907-11	SUB PANEL	K6P6K8	
605	2A		A52-1021-01	DOOR	P8	
605	2A		A52-1021-01	DOOR	K5P5K7	
605	2A		A52-1022-01	DOOR	P7	
605	2A		A52-1022-01	DOOR	K6P6K8	
606	2A		A52-1022-01	DOOR	P8	
606	2A		A60-2432-01	PANEL	K5P5	
606	2A		A60-2433-01	PANEL	K6P6	
606	2A		A60-2455-01	PANEL	K7P7	
606	2A		A60-2456-01	PANEL	K8P8	
607	1A		A70-1671-05	REMOTE CONTROLLER ASSY	K7K8P7	
607	1A		A70-1671-05	REMOTE CONTROLLER ASSY	P8	
607	1A		A70-1675-05	REMOTE CONTROLLER ASSY	K5K6P5	
607	1A		A70-1675-05	REMOTE CONTROLLER ASSY	P6	
-			B60-5557-00	INSTRUCTION MANUAL, EN	K5K6P5	
-			B60-5557-00	INSTRUCTION MANUAL, EN	P6	
-			B60-5558-00	INSTRUCTION MANUAL, FR	P5P6	
-			B60-5603-00	INSTRUCTION MANUAL, EN	K7K8P7	
-			B60-5603-00	INSTRUCTION MANUAL, EN	P8	
-			B60-5604-00	INSTRUCTION MANUAL, FR	P7P8	
610	2B		B03-3951-02	DRESSING PLATE	K5P5	
610	2B		B03-3952-02	DRESSING PLATE	K6P6	
610	2B		B03-3955-02	DRESSING PLATE	K7P7	
610	2B		B03-3956-02	DRESSING PLATE	K8P8	
612	2A		B10-5563-02	FRONT GLASS	K5K6P5	
613	2A		B11-1612-13	COLOR FILTER	P6	
613	2A		B11-1612-13	COLOR FILTER	K7K8P7	
613	2A		B11-1616-13	COLOR FILTER	P8	
614	2A		B12-0490-14	INDICATOR ASSY	K5P5K7	
614	2A		B12-0490-14	INDICATOR ASSY	P7	
614	2A		B12-0492-14	INDICATOR ASSY	K6P6K8	
616	2A		B43-0336-04	BADGE	P8	
620	2A		D39-0321-05	DAMPER		
626	1C		E30-7329-05	AC POWER CORD		
627	1B,2C		E35-3216-05	FLAT CABLE		
628	1C		E35-3746-05	FLAT CABLE		
637	1A,1B		F29-0134-04	INSULATING WASHER		
843	1B		G11-2416-04	CUSHION		
644	2A,2C		G11-2885-04	CUSHION		

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# KRF-V8090D/X9090D/VR-9560/9080

## PARTS LIST

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
637	1A, 1B		F29-0134-04	INSULATING WASHER		
643	1B		G11-2416-04	CUSHION		
644	2A, 2C		G11-2885-04	CUSHION		
645	1B		G11-2886-04	CUSHION		
646	2A		G11-2887-04	CUSHION		
647	1B		G11-2916-04	CUSHION		
648	1B, 1C		G11-2958-04	CUSHION		
649	2B		G11-2959-04	CUSHION		
650	2B		G11-2968-04	CUSHION		
650	2B		G11-2969-04	CUSHION		
650	2B		G11-2969-04	CUSHION		
655	2C		J61-0307-05	WIRE BAND		
656	1B		J02-1467-03	FOOT (D=60, H=21.5)		
657	2C		J19-5915-05	UNIT HOLDER		
658	2C		J19-6002-04	UNIT HOLDER		
658	2C		J19-6069-05	UNIT HOLDER		
671	1C		J19-6312-05	UNIT HOLDER		
671	1C		J42-0083-05	POWER CORD BUSHING		
679	2A		K27-2384-04	BUTTON KNOB		
679	2A		K27-2481-04	BUTTON KNOB		
679	2A		K27-2481-04	BUTTON KNOB		
680	2B		K29-8432-04	KNOB		
680	2B		K29-8433-04	KNOB		
680	2B		K29-8433-04	KNOB		
681	2B		K29-8434-13	KNOB		
681	2B		K29-8434-13	KNOB		
681	2B		K29-8446-13	KNOB		
682	2B		K29-8446-13	KNOB		
682	2B		K29-8446-13	KNOB		
682	2B		K29-8436-11	KNOB		
682	2B		K29-8436-11	KNOB		
683	2B		K29-8437-14	KNOB ASSY		
683	2B		K29-8439-14	KNOB ASSY		
683	2B		K29-8439-14	KNOB ASSY		
684	2B		K29-8444-04	KNOB		
684	2B		K29-8445-04	KNOB		
684	2B		K29-8445-04	KNOB		
685	2B		L07-3286-15	POWER TRANSFORMER		
685	2B		L07-3286-15	POWER TRANSFORMER		
685	2B		L07-3287-15	POWER TRANSFORMER		
685	2B		L07-3336-05	POWER TRANSFORMER		
686	1C		L92-0542-05	FERRITE CORE		
686	1C		L92-0542-05	FERRITE CORE		
686	1C		L92-0542-05	FERRITE CORE		
A			N84-2005-48	PAN HEAD TAPTITE SCREW		
G			N82-2608-48	BINDING HEAD TAPTITE SCREW		
J			N89-3008-48	BINDING HEAD TAPTITE SCREW		
M			N89-3018-48	BINDING HEAD TAPTITE SCREW		
N			N89-3010-48	BINDING HEAD TAPTITE SCREW		
P			N84-3005-48	PAN HEAD TAPTITE SCREW		
R			N84-2605-48	PAN HEAD TAPTITE SCREW		
R			N84-2605-48	PAN HEAD TAPTITE SCREW		
690	1A		T90-0893-05	LOOP ANTENNA		
691	1A		T90-0855-05	LEAD WIRE ANTENNA		
692	2A		T99-0672-05	MAGNET		
693	1A		T29-0011-05	MICROPHONE UNIT		

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③

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q51_52			TRAIT3KN	TRANSISTOR		
Q53_54			TRAIT3KP	TRANSISTOR		
Q716			TRAIT3KN	TRANSISTOR		
Q720			TRAIT3KP	TRANSISTOR		
694	1C		W02-4614-05	TUNER ASSY		
<b>KRF-V8090D/X9090D</b>						
601	1A		A01-3950-01	METALLIC CABINET		
601	1A		A01-3951-01	METALLIC CABINET		
601	1A		A01-3951-01	METALLIC CABINET		
603	2A		A21-5486-02	DRESSING PANEL		
603	2A		A21-5487-02	DRESSING PANEL		
603	2A		A21-5500-02	DRESSING PANEL		
603	2A		A21-5501-02	DRESSING PANEL		
604	2B		A22-1906-11	SUB PANEL		
604	2B		A22-1907-11	SUB PANEL		
604	2B		A22-1907-11	SUB PANEL		
605	2A		A52-1021-01	DOOR		
605	2A		A52-1022-01	DOOR		
605	2A		A52-1022-01	DOOR		
606	2A		A60-2423-01	PANEL		
606	2A		A60-2424-01	PANEL		
606	2A		A60-2430-01	PANEL		
606	2A		A60-2431-01	PANEL		
607	1A		A70-1672-05	REMOTE CONTROLLER ASSY		
607	1A		A70-1673-05	REMOTE CONTROLLER ASSY		
607	1A		A70-1676-05	REMOTE CONTROLLER ASSY		
-			B60-5555-00	INSTRUCTION MANUAL, 6-LAN		
-			B60-5556-00	INSTRUCTION MANUAL, EN		
-			B60-5557-00	INSTRUCTION MANUAL, EN		
-			B60-5559-00	INSTRUCTION MANUAL, 6-LAN		
-			B60-5561-00	INSTRUCTION MANUAL, EN		
610	2B		B03-3951-02	DRESSING PLATE		
610	2B		B03-3952-02	DRESSING PLATE		
610	2B		B03-3955-02	DRESSING PLATE		
610	2B		B03-3955-02	DRESSING PLATE		
612	2A		B10-5563-02	FRONT GLASS		
612	2A		B10-5564-02	FRONT GLASS		
612	2A		B10-5564-02	FRONT GLASS		
613	2A		B11-1612-13	COLOR FILTER		
613	2A		B11-1612-13	COLOR FILTER		
613	2A		B11-1616-13	COLOR FILTER		
614	2A		B12-0490-14	INDICATOR ASSY		
614	2A		B12-0492-14	INDICATOR ASSY		
614	2A		B12-0492-14	INDICATOR ASSY		
616	2A		B43-0336-04	BADGE		
620	2A		D39-0321-05	DAMPER		
625	1A		E03-0508-05	AC PLUG ADAPTER		
626	1C		E30-7313-05	AC POWER CORD		
626	1C		E30-7330-05	AC POWER CORD		
626	1C		E30-7346-05	AC POWER CORD		
626	1C		E30-7346-05	AC POWER CORD		
627	1B, 2C		E35-3216-05	FLAT CABLE		
628	1C		E35-3746-05	FLAT CABLE		

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# HOW TO READ THE PARTS LIST

## ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	Europe	PX/AAFES	USA
KRF-V8090D	B	-	-	E1	-	-
KRF-V8090D-S	S	-	-	E2	-	-
KRF-X9090D	B	-	-	E3	Y3	-
KRF-X9090D-S	S	-	-	E4	Y4	-
VR-9080	B	-	P5	-	-	K5
VR-9080-S	S	-	P6	-	-	K6
VR-9560	B	-	P7	-	-	K7
VR-9560-S	S	-	P8	-	-	K8

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Teile ohne **Parts No.** werden nicht geliefert.

5

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q11, 12 Q13, 14 Q31, 32 Q33, 34 Q51, 52 Q53, 54 Q718 Q720 TH1			TRAIT3KPNF TRAIT3KPNF TRAIT3KPNF TRAIT3KPNF TRAIT3KPNF TRAIT3KPNF TRAIT3KPNF DP40203SG270	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR THERMISTOR		
694 694 694	2C 1C 1C	* * *	W02-4615-05 W02-4616-05 W02-4616-05	TUNER ASSY TUNER ASSY TUNER ASSY	Y3Y4 E1E2X2 E3E4X4	

L: Scandinavia K: USA P: Canada R: Mexico C: China I: Malaysia  
Y: PX(Far East,Hawaii) T: England E: Europe G: Germany V: China(Shanghai)  
Y: AAFES(Europe) X: Australia Q: Russia M: Other Areas Δ indicates safety critical components

# KRF-V8090D/X9090D/VR-9560/9080 PARTS LIST

# KRF-V8090D/X9090D/VR-9560/9080

## PARTS LIST

\* New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

6

Ref. No	New Parts	Parts No.	Destination
<b>PREAMP (X08-3390-13)</b>			
C1 ,2		CK73GB1H472K	
C3 ,4		CC73GCH1H220J	
C5 ,6		CD04BJ1E470M	
C7		CD04BJ1H100M	
C8 ,9		CC73GCH1H221J	
C11		CK73GB1H104K	
C12		CK73GB1A474K	
C13 ,14		CK73GB1H104K	
C15		CK73GB1H102K	
C16		CK73GB1H103K	
C41		CK73GB1H104K	
C42		CK73GB1H103K	
C43		CD04BJ1H2R2M	
C44 ,45		CK73GB1H104K	
C46		CD04BJ1E470M	
C47 ,48		CD04BJ1H4R7M	
C49		CD04BJ1H100M	
C50 ,51		CK73GB1H103K	
C57 ,58		CC73GSL1H471J	
C61 ,62		CC73GCH1H080D	
C63		CK73GB1H102K	
C64		CK73GB1C563K	
C65		CD04BJ1E470M	
C66		CC73GCH1H220J	
C79		CK73GB1H103K	
C80		CK73FB1E104K	
C81		CK73GB1H104K	
C82		CD04BJ1H100M	
C83 ,84		CK73GB1H104K	
C85		CD04BJ1H100M	
C87		CD04BJ0J331M	
C88		CD04BJ1H100M	
C89		CK73FB1E104K	
C90		CK73GB1H104K	
C91		CD04BJ1H100M	
C92		CK73FB1E104K	
C93		CK73GB1H104K	
C94		CD04BJ1H100M	
C95		CK73FB1C105K	
C96		CK73GB1H104K	
C97		CD04BJ1A101M	
C98		CK73FB1E104K	
C99		CK73GB1H103K	
C100		CD04BJ1C472M	
C101,102		CD04BJ1H100M	
C103-106	*	CC73GCH1H182J	
C109		CC73GCH1H101J	
C110		CK73GB1H103K	
C121,122		CD04BJ1H100M	
C123,124	*	CC73GCH1H222J	
C125,126		CC73GCH1H821J	
C129		CC73GCH1H101J	
C130		CK73GB1H103K	
C141,142		CD04BJ1H100M	
C143-146	*	CC73GCH1H182J	
C149		CC73GCH1H101J	
C150		CK73GB1H103K	
C161,162		CD04BJ1H100M	
C163	*	CC73GCH1H182J	
C164		CK73GB1H822K	
C165	*	CC73GCH1H182J	
C166		CK73GB1H822K	
C169		CC73GCH1H101J	
C170		CK73GB1H103K	
C181,182		CC73GCH1H220J	
C189		CC73GCH1H101J	
C190		CK73GB1H103K	
C191-196		CD04BJ1H4R7M	
C197		CK73GB1H102K	
C198		CC73GCH1H101J	
C261,262		CD04BJ1H100M	
C263,264		CC73GCH1H220J	
C265,266		CD04BJ1H4R7M	
C267		CC73GCH1H101J	
C268		CK73GB1H103K	

Ref. No	New Parts	Parts No.	Destination
C501-528		CK73GB1H103K	
C529		CD04BJ1H100M	
C530-543		CK73GB1H103K	
C544,545		CK73GB1H104K	
C546-553		CK73GB1H103K	
C554		CK73GB1H104K	
C555		CK73GB1H103K	
C556-558		CK73GB1H102K	
C560		CK73GB1H103K	
C561,562		CC73GCH1H101J	
C563-565		CK73GB1H103K	
C567-570		CK73GB1H103K	
C571,572		CC73GCH1H080D	
C573		CK73GB1H102K	
C574		CK73GB1H103K	
C575		CC73GCH1H100D	
C601		CK73GCH1H101J	
C602		CK73GB1H821K	
C603		CC73GCH1H101J	
C604		CC73GCH1H100D	
CN4		E41-1435-05	
J1		E63-1387-05	
L1 ,2		L92-0510-05	
L3 ,5		L92-0578-05	
X6		L77-2419-05	
X51	*	L77-2455-05	
CP51-66		RK74GB1J220J	
CP71-75		RK74GB1J181J	
R1 ,2		RK73GB2A101J	
R3		RK73EB2E4R7J	
R4		RK73GB2A471J	
R5 ,6		RK73EB2E4R7J	
R7 ,8		RK73GB2A750J	
R11 ,12		RK73GB2A101J	
R21		RK73GB2A183J	
R23		RK73GB2A201J	
R24 -26		RK73GB2A101J	
R27		RK73GB2A104J	
R30 ,31		RK73GB2A101J	
R32		RK73GB2A102J	
R33		RK73GB2A181J	
R41		RK73GB2A330J	
R42		RK73GB2A104J	
R43 -47		RK73GB2A101J	
R48 ,49		RK73GB2A100J	
R50		RK73GB2A181J	
R51		RK73GB2A100J	
R52		RK73EB2E4R7J	
R55 ,56		RK73GB2A471J	
R61 ,62		RK73GB2A105J	
R63		RK73GB2A221J	
R64		RK73FB2A2R2J	
R65		RK73GB2A330J	
R81		RK73EB2E2R2J	
R82 ,83		R92-1918-05	
R84		RS14KB3D680J	
R85		RS14KB3D560J	
R86		RS14KB3D2R2J	
R86		RS14KB3D2R2J	
R86		RS14KB3D2R2J	
R86		RS14KB3D3R3J	
R86		RS14KB3D3R3J	
R86		RS14KB3D3R3J	
R87		RS14KB3D3R3J	
R88		RS14KB3D2R2J	
R89		RK73GB2A202J	
R90 ,91		RK73GB2A103J	
R92		RK73GB2A152J	
R93		RK73GB2A102J	
R94		RK73GB2A472J	
R95		RK73GB2A473J	
R96 ,97		RK73GB2A221J	
R98		R92-1918-05	
R101,102		RK73GB2A104J	
R103,104		RK73GB2A222J	

Ref. No	New Parts	Parts No.	Destination
R105,106		RK73GB2A102J	
R107,108		RK73GB2A103J	
R109,110		RK73GB2A472J	
R111,112		RK73GB2A221J	
R121,122		RK73GB2A104J	
R123,124		RK73GB2A332J	
R125,126		RK73GB2A911J	
R127,128		RK73GB2A272J	
R129,130		RK73GB2A562J	
R131,132		RK73GB2A221J	
R141,142		RK73GB2A104J	
R143,144		RK73GB2A222J	
R145,146		RK73GB2A102J	
R147,148		RK73GB2A103J	
R149,150		RK73GB2A472J	
R151,152		RK73GB2A221J	
R161,162		RK73GB2A104J	
R163		RK73GB2A222J	
R164		RK73GB2A273J	
R165		RK73GB2A102J	
R166		RK73GB2A183J	
R167,168		RK73GB2A103J	
R169		RK73GB2A472J	
R170		RK73GB2A912J	
R171,172		RK73GB2A221J	
R181,182		RK73GB2A102J	
R185-188		RK73GB2A562J	
R189,190		RK73GB2A101J	
R201-208		RK73GB2A104J	
R209-212		RK73GB2A472J	
R213,214		RK73GB2A432J	
R215,216		RK73GB2A562J	
R217,218		RK73GB2A472J	
R219,220		RK73GB2A562J	
R261-264		RK73GB2A562J	
R265,266		RK73GB2A101J	
R501,502		RK73GB2A330J	
R503-506		RK73GB2A104J	
R507-509		RK73GB2A101J	
R510		RK73GB2A104J	
R511		RK73GB2A330J	
R512		RK73GB2A101J	
R513-515		RK73GB2A104J	
R516		RK73GB2A101J	
R517		RK73GB2A220J	
R518		RK73FB2A100J	
R521		RK73GB2A472J	
R523,524		RK73GB2A472J	
R525,526		RK73GB2A220J	
R527		RK73GB2A101J	
R528-530		RK73GB2A472J	
R532-534		RK73GB2A472J	
R536		RK73GB2A103J	
R537-540		RK73GB2A472J	
R541-548		RK73GB2A100J	
R549		RK73GB2A101J	
R550		RK73GB2A100J	
R551		RK73GB2A104J	
R552		RK73GB2A102J	
R553		RK73GB2A101J	
R554		RK73GB2A201J	
R560-567		RK73GB2A472J	
R571		RK73GB2A105J	
R572		RK73GB2A101J	
R573		RK73GB2A105J	
R574		RK73GB2A103J	
R581		RK73GB2A104J	
R601,602		RK73GB2A100J	
R603,604		RK73GB2A120J	
R901,902		RK73GB2A000JK	
R903,904		RK73GB2A220J	
R907		RK73GB2A000JK	
R909-911		RK73GB2A000JK	
R912		RK73GB2A000JK	
R912		RK73GB2A000JK	
R912		RK73GB2A000JK	

L: Scandinavia K: USA P: Canada R: Mexico C: China  
Y: PX(Far East,Hawaii) T: England E: Europe G: Germany V: China(Shanghai)  
Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas

I: Malaysia

△ indicates safety critical components.

# KRF-V8090D/X9090D/VR-9560/9080

## PARTS LIST

\* New Parts  
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Teile ohne **Parts No.** werden nicht geliefert.

7

Ref. No	New Parts	Parts No.	Desti-nation
R912		RK73GB2A000JK	K8P5P6
R912		RK73GB2A000JK	P7P8
S1		S62-0034-05	Y3Y4
Δ D1		D2SBA207009F01	
Δ D2 -4		MA111	
D5		UDZS5.6B	
Δ D6 ,7		UDZS3.9B	
Δ D8		1SR154-400	
D9		UDZS3.9B	
D10		UDZS5.1B	
D11 ,12		DAN202U	
Δ D13 -16		MA111	
Δ D17		1SR154-400	
D18		MA111	Y3Y4
D41		DAP202U	
D42		DAN202U	
D51 ,52		MA111	
IC1		AK4114VQ	
IC2		AK4628-VQ	
IC6		TC7VU04FU-F	
IC10		NJM4565MD-ZB	
IC12		NJM4565MD-ZB	
IC14		NJM4565MD-ZB	
IC16		NJM4565MD-ZB	
IC18	*	NJM5632MD-ZB	
IC19		NJM4565MD-ZB	
IC20		NJU7311AM-ZB	
Δ IC21,22		BA033T	
Δ IC23		BA05T	
Δ IC24		XC6201P332PRN	
IC26		SI-3010KM	
IC50	*	ADSST-AVR-1100	E3E4Y3
IC50	*	ADSST-AVR-1100	K5K6P5
IC50	*	ADSST-AVR-1100	P6Y4X4
IC50	*	ADSST-AVR-1105	E1E2X2
IC50	*	ADSST-AVR-1105	K7K8P7
IC51-53	*	ADSST-AVR-1105	P8
IC54		SN74LVC245APWR	
IC55		SN74LVC2G125T3	
IC56		SN74LVC139APWR	
IC57		SN74LVC1G08DC3	
IC58		SN74LVC1G32DC3	
IC59	*	LHF16JT2-1BEA	E1E2X2
IC59	*	LHF16JT2-1BEA	K7K8P7
IC59	*	LHF16JT2-1BEA	P8
IC59	*	LHF16JT2-1BFA	E3E4Y3
IC59	*	LHF16JT2-1BFA	K5K6P5
IC59	*	LHF16JT2-1BFA	P6Y4X4
IC60	*	IS61LV1024810T	
IC61		TC74VHC125FT	
IC62		TC74HCT007AF	
IC63		SN74LVC1G32DC3	
IC64		SN74LVC1G08DC3	
Q1		2SB1218A(Q,R)	
Q2		2SD1819A(Q,R)	
Q51		2SC4081(R,S)	
A1 ,2		W02-4524-05	
A3		W02-4540-05	
<b>AUDIO (X09-6960-11)</b>			
C1 ,2		CC45FSL1H221J	
C3 ,4		CD04BJ1H100M	
C5 ,6		CC45FSL1H221J	
C7 ,8		CD04BJ1A101M	
C9 ,10		CC45FSL1H221J	
C11 ,12		CQ93FMG1H123J	
C13 ,14		CK45FB1H332K	
C15 ,16		CD04BJ1H4R7M	
C17 ,18		CC45FSL1H101J	
C19 -38		CC45FSL1H221J	
C39		CC45FSL1H101J	
C40		CK45FF1H103Z	E1E2E3
C40		CK45FF1H103Z	E4X2X4
C40		CK45FF1H103Z	Y3Y4

Ref. No	New Parts	Parts No.	Desti-nation
C41		CK45FF1H103Z	
C42		CK45FF1H103Z	E1E2E3
C42		CK45FF1H103Z	E4X2X4
C42		CK45FF1H103Z	Y3Y4
C44 ,45		CD04BJ1E470M	
C46 ,47		CQ93FMG1H823J	
C48 ,49		CC45FSL1H101J	
C51 -54		C91-1573-05	
C55 ,56		CQ93FMG1H272J	
C57 ,58		CD04BJ1H2R2M	
C62 ,63		CD04BJ1H3R3M	
C64 ,65		CD04BJ2A3R3M	
C66 ,67		CC45FSL1H331J	
C68		CC45FCH1H070D	
C69		CC45FCH1H080D	
C70 ,71		CQ93FMG1H222J	
C72 ,73		CC45FSL1H101J	
C74 ,75		CD04BJ1A221M	
C76 ,77		CC45FCH1H150J	
C78 ,79		CK45FB1H561K	
C84 ,85		CD04BJ1E470M	
C86 ,87		CC45FSL1H151J	
C88 ,89		CC45FSL2H470J	
C90 -93		C91-1577-05	E1E2E3
C90 -93		C91-1577-05	E4X2X4
C90 -93		C91-1577-05	Y3Y4
C90 ,91		C91-1573-05	K5K6K7
C90 ,91		C91-1573-05	K8P5P6
C90 ,91		C91-1573-05	P7P8
C94 ,95		CK45FB1H332K	
C111-114		CD04BJ1H3R3M	
C115,116		CC45FSL1H331J	
C117,118		CC45FCH1H050C	
C119,120		CQ93FMG1H222J	
C121,122		CC45FSL1H101J	
C123,124		CD04BJ1A221M	
C125,126		CC45FCH1H150J	
C127,128		CK45FB1H561K	
C133,134		CD04BJ1H220M	
C135,136		CC45FSL1H151J	
C137,138		CC45FSL2H470J	
C139-142		C91-1577-05	E1E2E3
C139-142		C91-1577-05	E4X2X4
C139-142		C91-1577-05	Y3Y4
C139,140		C91-1573-05	K5K6K7
C139,140		C91-1573-05	K8P5P6
C139,140		C91-1573-05	P7P8
C161		CD04BJ1H3R3M	
C163		CD04BJ2A3R3M	
C165		CC45FSL1H331J	
C167		CC45FCH1H060D	
C169		CQ93FMG1H222J	
C171		CC45FSL1H101J	
C173		CD04BJ1A221M	
C175		CC45FCH1H150J	
C177		CK45FB1H561K	
C183		CD04BJ1E470M	
C185		CC45FSL1H151J	
C187		CC45FSL2H470J	
C189-192		C91-1577-05	E1E2E3
C189-192		C91-1577-05	E4X2X4
C189-192		C91-1577-05	Y3Y4
C189,190		C91-1573-05	K5K6K7
C189,190		C91-1573-05	K8P5P6
C189,190		C91-1573-05	P7P8
C193		CK45FB1H332K	
C195,196		CK45FB1H332K	
C210,211		CC45FCH1H050C	
C301,302	*	C90-5844-05	
C303		CQ93FMG1H103J	
C304		CD04BJ1A221M	
C305		CD04BJ1H101M	
C306		CD04BJ2A101M1	
C308		CD04BJ1H100M	
C309-311		CD04BJ1H220M	

Ref. No	New Parts	Parts No.	Desti-nation
C312		CD04BJ1A101M	
C315		CD04BJ2A330M	
C316		CD04BJ2A100M	
C317,318		CD04BJ2A220M	
C319,320		CC45FSL1H101J	
C323		CK45FB1H102K	
C324,325		CD04BJ1C471M	
C351-353		CC45FSL1H221J	
C354		CQ93FMG1H122J	
C355-360		CK45FF1H472Z	
C361,362		CD04BJ1H220M	
C363		CD04BJ1E470M	
C364		CD04AU1H2R2M	
C365		CD04BJ1A221M	
C366		CD04BJ1H4R7M	
C367		CD04BJ1A221M	
C368		CD04BJ1H4R7M	
C369		CD04AU1E220M	
C370		CK45FB1H102K	
C450		CK45FE2H103P	
C451-453		CK45FB2H102K	
C501,502		CC45FSL1H221J	
C503		CK45FF1H103Z	
C600		CD04BJ1E101M	
C609		CC45FCH1H100D	
C610		CD04BJ2A101M1	
C611		CD04BJ1H220M	
C722		CD04BJ1H220M	
C800,801		CD04BJ1H100M	
C802		CK45FF1H103Z	
CN4 ,5		E41-1435-05	
J3		E63-1379-05	
J5	*	E70-1017-05	
J6	*	E70-1018-05	
J11 ,12	*	E63-1380-05	
J21 ,22		E63-1380-05	
J501		E11-0993-05	
W350,351		E29-1677-14	
E501		J11-0898-05	E1E2E3
E501		J11-0898-05	E4X2X4
E501		J11-0898-05	Y3Y4
L1 -6		L39-1631-05	
R61 ,62		RS14KB3A821J	
R81 -84		RD14NB2E221J	
R85 ,86		RD14NB2E562J	
R87 ,88		RD14NB2E331J	
R93 -96		RD14NB2E470J	
R97 ,98		RD14NB2E221J	
R99 ,100		RD14NB2E330J	
R101 ,102		RS14KB3D4R7J	
R103,104		RS14KB3D391J	
R131-134		RD14NB2E221J	
R135,136		RD14NB2E562J	
R137,138		RD14NB2E331J	
R143-146		RD14NB2E470J	
R147,148		RD14NB2E221J	
R149,150		RD14NB2E330J	
R151,152		RS14KB3D4R7J	
R181		RD14NB2E221J	
R183		RD14NB2E221J	
R185		RD14NB2E562J	
R187		RD14NB2E331J	
R193		RD14NB2E470J	
R195		RD14NB2E470J	
R197,198		RD14NB2E221J	
R199,200		RD14NB2E330J	
R201,202	Δ	RS14KB3D4R7J	
R303	Δ	RD14NB2E561J	
R304	Δ	RS14KB3A822J	
R306	Δ	RD14NB2E101J	
R307	Δ	RD14NB2E822J	
R310		RS14KB3A390J	
R311		RS14KB3A680J	
R314		RS14KB3A681J	

L : Scandinavia K : USA P : Canada R : Mexico C : China  
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# KRF-V8090D/X9090D/VR-9560/9080

## PARTS LIST

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8

Ref. No	New Parts	Parts No.	Destination
R317 R318		RS14KB3D152J RS14KB3D222J	
△ R321,322 R325,326 R331-333 R342 R343		RD14NB2E1R0J RD14NB2E472J RS14KB3D182J RS14KB3A100J RS14KB3A470J	
R454 R476 R627 R733 R735		RS14KB3A391J RD14NB2E561J RD14NB2E472J RD14NB2E470J RD14NB2E470J	
VR1 -6		R32-0118-05	
K2 -5		S76-0098-05	
D1 -5 D6 D6 D6 D7		1SS133 1SS133 1SS133 1SS133 MTZJ5.1(B)	E1E2E3 E4X2X4 Y3Y4 E1E2E3
D7 D7 D8 D8 D8		MTZJ5.1(B) MTZJ5.1(B) MTZJ3.9(B) MTZJ3.9(B) MTZJ3.9(B)	E4X2X4 Y3Y4 E1E2E3 E4X2X4 Y3Y4
△ D12		D5SBA20-7000	
△ D14, 15 D16 D17 D18 D19		S5688B 1SS133 MTZJ16(B) MTZJ15(B) MTZJ16(B)	
D20 D21 D22 D23 D23		MTZJ6.2(B) MTZJ6.8(B) MTZJ5.1(B) MTZJ13(B) MTZJ13(B)	X2 Y3Y4X4
D23 D23 D23 D23 D23		MTZJ15(B) MTZJ15(B) MTZJ15(B) MTZJ7.5(B) MTZJ7.5(B)	K5K6K7 K8P5P6 P7P8 E2 E3E4E1
D24 D24 D24 D24 D24		MTZJ7.5(B) MTZJ7.5(B) MTZJ8.2(B) MTZJ8.2(B) MTZJ8.2(B)	X2 Y3Y4X4 E2 E3E4E1 K5K6K7
D24 D24 D25 D26 D26		MTZJ8.2(B) MTZJ8.2(B) MTZJ30(B) MTZJ3.9(B) MTZJ3.9(B)	K8P5P6 P7P8 E2 E3E4E1
D27 D28, 29 D32-35 D51, 52 D53, 54		1SS244 1SS133 1SS133 1SS244 1SS133	
D55, 56 D57, 58 D59, 60 D61, 62 D63		1SS244 1SS133 1SS244 1SS133 MTZJ3.9(B)	
D64 D65 D66 D67 D68		1SS133 MTZJ3.9(B) 1SS133 MTZJ3.9(B) 1SS133	
D69 D602-604 D608 D609 D800,801		MTZJ3.9(B) 1SS133 MTZJ30(B) MTZJ20(B) MTZJ5.6(B)	
IC1 IC2 IC2 IC2		NJM4580L-ZB M61516FP M61516FP M61516FP	K5K6K7 K8P5P6 P7P8

Ref. No	New Parts	Parts No.	Destination
IC2		M61516FP-RF0G	E1E2E3
IC2 IC2 IC800 Q1 -4 Q5 ,6 Q7 -10 Q21 -24 Q25 ,26 Q27 -30 Q41 Q43 Q45 Q47 Q49 Q302		M61516FP-RF0G M61516FP-RF0G CD4052BE 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) 2SA992(F,E) 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) DTC113ZSA	E4X2X4 Y3Y4 E2 E3E4E1
△ Q303 △ Q304 Q305 △ Q306 △ Q307		2SC3940A(R,S) 2SB1640 DTC143ZSA 2SB1640 2SD2525	
Q308 Q309-312 Q313 Q313 Q331-335		2SA992(F,E) KTC3200-P DTC143ZSA DTC143ZSA 2SC2878(B)-F	
Q353-358 Q359 Q360,361 Q362 Q363,364 Q365 Q602-604 Q605,606 Q607 Q610		2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SC2878(B)-F 2SA992(F,E) 2SD2012	
Q611 Q611 Q611 Q612 Q612 Q612		* KTC3199-P(Y,G) * KTC3199-P(Y,G) * KTC3199-P(Y,G) * KTA1267-P(Y,G) * KTA1267-P(Y,G) * KTA1267-P(Y,G)	E1E2E3 E4X2X4 Y3Y4 E1E2E3 E4X2X4
Q612		* KTA1267-P(Y,G)	Y3Y4
<b>SUB (X13-7960-13)</b>			
C101-106 C107,108 C109 C110-115 C119-124 C128-130 C131-133 C134-136 C137 C138-140 C141 C142 C146 C147 C148 C150 C151,152 C153,154 C155,156 C157,158 C159 C161 C169 C180,181 C201 C201 C202 C202 C203 C203 C205,206		CC45FCH1H100D CC45FSL1H820J CC45FCH1H100D CD04BJ1V330M CK45FF1H103Z CC45FCH1H100D CD04BJ1V330M CK45FF1H103Z CD04BJ1E470M CQ93FMG1H104J CC45FCH1H100D CD04BJ1H100M CD04BJ1H100M CD04BJ1E470M CQ93FMG1H104J CQ93FMG1H104J CD04BJ1H4R7M CD04BJ1E470M CC45FSL1H820J CD04BJ1H220M CC73GCH1H050C CC73GCH1H050C CK73GB1H331K CC73GCH1H050C CD04BJ1H100M CD04BJ1H100M CK45FF1H103Z CK45FF1H103Z CQ93FMG1H683J CQ93FMG1H683J CK45FF1H103Z	K5K6P5 P6 K5K6P5 P6 K5K6P5

Ref. No	New Parts	Parts No.	Destination
C205,206		CK45FF1H103Z	P6
C207 C207 C208 C208 C209		CD04BJ1A101M CD04BJ1A101M CD04BJ1A221M CD04BJ1A221M CK45FF1H103Z	K5K6P5 P6 K5K6P5 P6 K5K6P5
C209 C210 C210 C211-213 C211-213		CK45FF1H103Z CC45FSL1H221J CC45FSL1H221J CC45FSL1H101J CC45FSL1H101J	P6 K5K6P5 P6 K5K6P5 P6
C214,215 C214,215 C216 C216 C301-309		CK45FF1H103Z CK45FF1H103Z CD04BJ1H010M CD04BJ1H010M CC45FSL1H221J	K5K6P5 P6 K5K6P5 P6 E3E4Y3
C301-309 C301-309 C310 C311-313 C315-317		CC45FSL1H221J CC45FSL1H221J CC45FSL1H221J CK45FB1H332K CC45FSL1H101J	K5K6P5 P6Y4X4
C401-406 C407,408 C409,410 C411,412 C419		CD04BJ1H220M CK45FB1H471K CC73GCH1H471J CK45FB1H471K CD04BJ1E221M	
C420 C425,426 C427,428 C429,430 C431-436		CD04BJ1E101M CC45FSL1H101J CC73GCH1H100D CC45FCH1H100D CD04BJ1E470M	E3E4Y3
C431-436 C431-436 C437,438 C437,438 C437,438		CD04BJ1E470M CD04BJ1E470M CD04AU1E220M CD04AU1E220M CD04AU1E220M	K5K6P5 P6Y4X4 E3E4Y3 K5K6P5 P6Y4X4
C439 C439 C439 C440 C441,442		CD04BJ1E470M CD04BJ1E470M CD04BJ1E470M CD04BJ1H100M CD04BJ1A101M	E3E4Y3 K5K6P5 P6Y4X4
C443-446 C447 C447 C447 C448		CD04BJ1H220M CD04BJ1H100M CD04BJ1H100M CD04BJ1H100M CD04BJ2A3R3M	E3E4Y3 K5K6P5 P6Y4X4 E3E4Y3
C448 C448 C449,450 C451 C452		CD04BJ2A3R3M CD04BJ2A3R3M CD04BJ1H220M CD04BJ1E221M CD04BJ1H220M	K5K6P5 P6Y4X4
C453,454 C455 C457 C458 C459		CK45FB1H471K CD04AU1E220M CQ93FMG1H392J CC45FCH1H100D CC73GCH1H470J	
C460,461 C463,464 C463,464 C463,464 C468,469		CC73GCH1H101J CD04BJ1E470M CD04BJ1E470M CD04BJ1E470M CC73GCH1H070D	E3E4Y3 K5K6P5 P6Y4X4
C536 C538 C540 C544,545 C600		CK73GB1H182K CK73GB1H102K CD04BJ1H220M CK73GB1H103K CD04BJ1H100M	
C601-606 C607 C607 C607 C608-611		CC45FSL1H470J CC45FSL1H470J CC45FSL1H470J CC45FSL1H470J CD04BJ1E470M	E3E4Y3 K5K6P5 P6Y4X4
C612 C613-615 C616 C617 C618		CD04BJ1A101M CD04BJ1V330M CD04BJ1E470M CK73GB1H103K CD04BJ1H100M	

L: Scandinavia K: USA P: Canada R: Mexico C: China  
Y: PX(Far East,Hawaii) T: England E: Europe G: Germany V: China(Shanghai)  
Y: AAFES(Europe) X: Australia O: Russia H: Korea M: Other Areas

I: Malaysia

△ indicates safety critical components.

# KRF-V8090D/X9090D/VR-9560/9080

## PARTS LIST

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Teile ohne **Parts No.** werden nicht geliefert.



Ref. No	New Parts	Parts No.	Desti-nation
C619		CD04BJ1V330M	
C620		CD04BJ1H100M	
C621		CK73GB1H104K	
C622		CD04BJ1V330M	
C625		CD04BJ1H0R1M	
C626,627		CK73FB1C105K	
C651-662		CC45FSL1H470J	
C663		CK45FF1H103Z	
C664		CD04BJ1E470M	
C665		CK45FF1H103Z	
C666		CD04BJ1E470M	
C667		CK45FF1H103Z	
C668		CD04BJ1E470M	
C669		CK45FF1H103Z	
C670,671		CD04BJ1E470M	
C672		CK45FF1H103Z	
C673		CD04BJ1E470M	
C674-677		CD04BJ1H100M	
C678,679		CK73GB1H103K	
C681		CD04BJ1A471M	
C682		CK73GB1H104K	
C683		CK73GB1H103K	
C693		CC45FSL1H101J	
C694		CK73GB1H103K	K5K6K7
C694		CK73GB1H103K	K8P5P6
C694		CK73GB1H103K	P7P8
C699		CK73GB1H104K	
C702-705		CD04BJ1H3R3M	
C706,707		CC45FSL1H331J	
C708,709		CC93FMG1H222J	
C710,711		CC45FCH1H050C	
C712		CC45FSL1H221J	
C713		CC45FSL1H101J	
C714,715		CD04BJ1A221M	
C716,717		CC45FCH1H150J	
C718,719		CC45FSL1H151J	
C720		CK45FB1H102K	
C721		CK45FB1H561K	
C722		CD04BJ1H220M	
C724,725		CC45FSL2H470J	
C728		CK45FF1H472Z	
C730		C91-1573-05	K5K6K7
C730		C91-1573-05	K8P5P6
C730		C91-1573-05	P7P8
C730		C91-1577-05	E1E2E3
C730		C91-1577-05	E4X2X4
C730		C91-1577-05	Y3Y4
C732		C91-1577-05	E1E2E3
C732		C91-1577-05	E4X2X4
C732		C91-1577-05	Y3Y4
C733		CC45FSL1H101J	
C734		CK45FF1H103Z	
CN301		E41-1435-05	
J61,62		E63-1384-05	
J63		E63-1383-05	E3E4Y3
J63		E63-1383-05	K5K6P5
J63		E63-1383-05	P6X4Y4
J65-67		E56-0059-05	
J101		E63-1385-05	
J102,103		E63-1386-05	
J201	*	E11-0995-05	K5K6P5
J201	*	E11-0995-05	P6
J202		E11-0991-05	K5K6P5
J202		E11-0991-05	P6
J302		E63-1364-05	E3E4Y3
J302		E63-1364-05	K5K6P5
J302		E63-1364-05	P6Y4X4
J303	*	E63-1399-05	E3E4Y3
J303	*	E63-1399-05	K5K6P5
J303	*	E63-1399-05	P6Y4X4
J305		E63-1359-05	E1E2X2
J305		E63-1359-05	K7K8P7
J305		E63-1359-05	P8
J502	*	E70-1016-05	
L201		L40-1011-58	K5K6P5

Ref. No	New Parts	Parts No.	Desti-nation
L201		L40-1011-58	P6
L202		L92-0017-05	K5K6P5
L202		L92-0017-05	P6
L502		L76-0018-05	K5K6K7
L502		L76-0018-05	K8P5P6
L502		L76-0018-05	P7P8
L503		L76-0019-05	E1E2E3
L503		L76-0019-05	E4X2X4
L503		L76-0019-05	Y3Y4
L504		L79-1262-05	E1E2E3
L504		L79-1262-05	E4X2X4
L504		L79-1262-05	Y3Y4
L702		L39-1631-05	
R1-12		RK73GB2A000JK	
R70-77		RK73GB2A000JK	
R80-86		RK73GB2A000JK	
R87		RK73FB2B000JK	
R88-90		RK73GB2A000JK	
R91		RK73FB2B000JK	
R124,125	Δ	RD14BB2C1R0J	
R159,160		RK73GB2A391J	
R177,178		RK73GB2A101J	
R180,181		RK73GB2A301J	
R182,183	Δ	RK73GB2A330J	
R205	Δ	RD14BB2C101J	K5K6P5
R205	Δ	RD14BB2C101J	P6
R213,214	Δ	RD14NB2E471J	K5K6P5
R213,214	Δ	RD14NB2E471J	P6
R217		RD14NB2E471J	K5K6P5
R217		RD14NB2E471J	P6
R403,404		RK73GB2A223J	
R409,410		RK73GB2A622J	E3E4Y3
R409,410		RK73GB2A622J	K5K6P5
R409,410		RK73GB2A622J	P6Y4X4
R415,416		RK73GB2A473J	
R421,422	Δ	RK73GB2A220J	
R425		RD14NB2E561J	
R426,427		RK73GB2A102J	E3E4Y3
R426,427		RK73GB2A102J	K5K6P5
R426,427		RK73GB2A102J	P6Y4X4
R428		RK73GB2A102J	
R429		RK73GB2A103J	
R430,431		RK73GB2A103J	E3E4Y3
R430,431		RK73GB2A103J	K5K6P5
R430,431		RK73GB2A103J	P6Y4X4
R432		RK73GB2A102J	E3E4Y3
R432		RK73GB2A102J	K5K6P5
R432		RK73GB2A102J	P6Y4X4
R434	Δ	RD14NB2E150J	
R443,444	Δ	RK73GB2A183J	
R450	Δ	RD14NB2E561J	E3E4Y3
R450	Δ	RD14NB2E561J	K5K6P5
R450	Δ	RD14NB2E561J	P6Y4X4
R451	Δ	RD14NB2E102J	E3E4Y3
R451	Δ	RD14NB2E102J	K5K6P5
R451	Δ	RD14NB2E102J	P6Y4X4
R452	Δ	RD14NB2E150J	
R456		RK73GB2A473J	
R466,467		RK73GB2A100J	
R468		RK73GB2A181J	
R469		RK73GB2A161J	
R529		RK73GB2A103J	
R530		RK73GB2A223J	
R532		RK73GB2A332J	
R534		RK73GB2A562J	
R536		RK73GB2A103J	
R539		RK73GB2A223J	
R540		RK73GB2A103J	
R542		RK73GB2A104J	
R545		RK73GB2A101J	
R546		RK73GB2A474J	
R549		RK73GB2A183J	
R550		RK73GB2A103J	
R552		RK73GB2A363J	
R554		RK73GB2A103J	
R556		RK73GB2A472J	

Ref. No	New Parts	Parts No.	Desti-nation
R561,562		RK73GB2A104J	
R563,564		RK73GB2A102J	
R600		RK73GB2A101J	
R611,612		RK73GB2A101J	
R613		RK73GB2A105J	
R617		RS14KB3A150J	
R621-623		RK73GB2A104J	
R624	Δ	RS14KB3A150J	
R625-628	Δ	RK73EB2E1R0J	
R667	Δ	RK73GB2A104J	
R671	Δ	RS14KB3A150J	
R674	Δ	RS14KB3A470J	
R695		RK73GB2A101J	
R699		RK73GB2A105J	
R723,724		RD14NB2E221J	
R725,726		RD14NB2E562J	
R727,728		RD14NB2E331J	
R729,730		RD14NB2E221J	
R746		RD14NB2E330J	
R748		RS14KB3D4R7J	
R752		RS14KB3D182J	
R756		RD14NB2E470J	
R758		RD14NB2E470J	
R760		RD14NB2E221J	
VR702		R32-0118-05	
K702		S76-0098-05	
D100,101		MTZJ5.6(B)	
D155-157		MTZJ7.5(B)	
D158-161		UDZS3.9B	
D201-206	Δ	1SS133	K5K6P5
D201-206	Δ	1SS133	P6
D401		MTZJ3.9(B)	
D402		MTZJ5.1(B)	E3E4Y3
D402		MTZJ5.1(B)	K5K6P5
D402		MTZJ5.1(B)	P6Y4X4
D503		DA204U	
D652		1SS133	
D655,656		MTZJ5.6(B)	
D701-704		1SS133	
D706		1SS244	
D708		1SS133	
D710		1SS133	
IC3		BU4066BC	
IC6		RC4580IP	
IC11	*	NJM2586AM-ZB	
IC65		LA79510M	
IC66		NJM2284V	
IC68,69		NJM2575	
IC201	Δ	BA05T	K5K6P5
IC201	Δ	BA05T	P6
IC401-404		RC4580IP	
IC507		BA4560F	
IC508		BA7623F	
Q65	Δ	2SD2525	
Q66	Δ	2SB1640	
Q100	Δ	2SA954(L,K)	
Q101	Δ	2SC2003(L,K)	
Q158,159	*	KRC103M-P	K5K6P5
Q201	*	KRC103M-P	P6
Q201	*	KRC103M-P	K5K6P5
Q202,203		2SC1740S(Q,R)	
Q202,203		2SC1740S(Q,R)	P6
Q204		2SA933AS(Q,R)	K5K6P5
Q204		2SA933AS(Q,R)	P6
Q301-309		2SC2878(B)-F	E3E4Y3
Q301-309		2SC2878(B)-F	K5K6P5
Q301-309		2SC2878(B)-F	P6Y4X4
Q310		2SC2878(B)-F	
Q311-319		2SC2878(B)-F	E3E4Y3
Q311-319		2SC2878(B)-F	K5K6P5
Q311-319		2SC2878(B)-F	P6Y4X4
Q320		2SC2878(B)-F	
Q401,402		DTA124EUA	E3E4Y3
Q401,402		DTA124EUA	K5K6P5
Q401,402		DTA124EUA	P6Y4X4

L : Scandinavia  
Y : P(X)(Far East,Hawaii)  
Y : AAFES(Europe)

K : USA  
T : England  
X : Australia

P : Canada  
E : Europe  
Q : Russia

R : Mexico  
G : Germany  
H : Korea

C : China  
V : China(Shanghai)  
M : Other Areas

I : Malaysia

Δ indicates safety critical components

# KRF-V8090D/X9090D/VR-9560/9080

## PARTS LIST

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Teile ohne **Parts No.** werden nicht geliefert.

10

Ref. No	New Parts	Parts No.	Destination
Q403-408		2SC2878(B)-F	E3E4Y3
Q403-408		2SC2878(B)-F	K5K6P5
Q403-408		2SC2878(B)-F	P6Y4X4
Q409	*	KRA103M-P	E3E4Y3
Q409	*	KRA103M-P	K5K6P5
Q409	*	KRA103M-P	P6Y4X4
Q410		DTA124EUA	
Q411,412		2SC2878(B)-F	E3E4Y3
Q411,412		2SC2878(B)-F	K5K6P5
Q411,412		2SC2878(B)-F	P6Y4X4
Q501,502		2SC4213(B)-F	
Q512		2SC4081(R,S)	
Q701,702		2SC2878(B)-F	
Q703-706		2SA992(F,E)	
Q707,708		2SC2631(R,S)	
Q709,710		2SA1123(R,S)	
Q711,712		2SC2631(R,S)	
Q714		2SC1845(F,E)	
Q716	*	KTC3200-P	

### DISPLAY (X14-7900-13/X14-7980-10)

D734		B30-2545-05		K5K6P5
D741-745		B30-2545-05		K7K8P7
D741-745		B30-2545-05		P6P8X2
D741-745		B30-2545-05		Y3Y4X4
D741-745		B30-2545-05		Y3Y4X4
D741-745		B30-2651-05		E2
D741-745		B30-2651-05		E3E4E1
D753		B30-2651-05		
D755		B30-2545-05		K5K6P5
D755		B30-2545-05		K7K8P7
D755		B30-2545-05		P6P8X2
D755		B30-2545-05		Y3Y4X4
D755		B30-2651-05		E2
D755		B30-2651-05		E3E4E1
C101		CC45FCH1H101J		
C103		CK73GB1H103K		
C104		CC73GCH1H101J		
C105		CC45FCH1H101J		E2
C105		CC45FCH1H101J		E3E4E1
C401		CK45FE2H103P		
C402		CD04BJ1E222M1		E1E2X2
C402		CD04BJ1E222M1		E3E4X4
C402		CD04BJ1E222M1		K5K6P5
C402		CD04BJ1E222M1		K7K8P7
C402	*	CD04BJ1E222M1		P6P8
C402	*	CD04BJ1V222M1		Y3Y4
C403		CD04BJ1E102M1		E1E2X2
C403		CD04BJ1E102M1		E3E4X4
C403		CD04BJ1E102M1		K5K6P5
C403		CD04BJ1E102M1		
C403		CD04BJ1E102M1		K7K8P7
C403		CD04BJ1E102M1		P6P8
C403	*	CD04BJ1V102M1		Y3Y4
C404-407		CK73GB1H103K		
C408,409		CD04BJ1E470M		
C410		CC73GCH1H680J		
C411		CC73GCH1H820J		
C451		CK45FF1H103Z		
C452		CQ93FMG1H104J		K5K6P5
C452		CQ93FMG1H104J		K7K8P7
C452		CQ93FMG1H104J		P6P8
C452		CQ93FMG1H393J		E2
C452		CQ93FMG1H393J		E3E4E1
C452		CQ93FMG1H473J		X4X2
C452		CQ93FMG1H683J		Y3Y4
C453		CD04BJ1C332M1		K5K6P5
C453		CD04BJ1C332M1		K7K8P7
C453		CD04BJ1C332M1		P6P8
C453		CD04BJ1E332M1		E1E2E3
C453		CD04BJ1E332M1		E4X2X4
C453		CD04BJ1E332M1		Y3Y4
C454		CD04BJ1H100M		
C455		CD04BJ1A222M1		Y3Y4
C456,457		CK45FF1H103Z		
C458		CD04BJ1H100M		

Ref. No	New Parts	Parts No.	Destination
C459		CD04BJ1H010M	
C501-504		CC73GCH1H101J	
C505,506		CK73GB1H102K	
C507,508		CC73GCH1H101J	
C509		CC73GCH1H471J	
C510,511		CC73GCH1H101J	
C515		CC73GCH1H221J	
C516		CK73FB0J106K	
C517		CC73GCH1H221J	
C518		CC73GCH1H561J	
C519		CD04BJ1H101M	
C520		CC73GCH1H220J	
C521		CK73GB1H152K	K5K6P5
C521		CK73GB1H152K	K7K8P7
C521		CK73GB1H152K	P6P8
C522,523		CK73GB1H102K	
C524		CC73GCH1H471J	
C536		CK73GB1H182K	
C538		CK73GB1H102K	
C540		CD04BJ1H220M	
C544,545		CK73GB1H103K	
C550		CK73GB1A105K	
C701		CC73GCH1H221J	
C702		CD04BJ1H101M	
C703,704		CK73GB1H102K	
C705		CC73GCH1H181J	
C741		CK73EB1E105K	
C761-766		CK73GB1H103K	
C777		CK45FB1H102K	
C778		CC45FCH1H101J	
C779		CD04BJ1A101M	
C780		CC73GCH1H270J	
C791		CD04AT0J470M	
C792		CD04BJ1H220M	
C793,794		CK45FF1H103Z	
C811		CK45FF1H103Z	E1E2X2
C811		CK45FF1H103Z	E3E4X4
C812,813		CC45FCH1H270J	E1E2X2
C812,813		CC45FCH1H270J	E3E4X4
C814		CC45FCH1H101J	E1E2X2
C814		CC45FCH1H101J	E3E4X4
C815		CD04BJ1E470M	E1E2X2
C815		CD04BJ1E470M	E3E4X4
C816		CK45FB1H561K	E1E2X2
C816		CK45FB1H561K	E3E4X4
C817		CK45FF1H103Z	E1E2X2
C817		CK45FF1H103Z	E3E4X4
C818		CC73GCH1H271J	E1E2X2
C818		CC73GCH1H271J	E3E4X4
C819		CD04BJ1H2R2M	E1E2X2
C819		CD04BJ1H2R2M	
C819		CD04BJ1H2R2M	E3E4X4
C831		CK45FF1H103Z	Y3Y4
C832		CD04BJ1H2R2M	Y3Y4
C833		CK45FF1H103Z	Y3Y4
C841		CD04BJ0J102M	K5K6P5
C841		CD04BJ0J102M	K7K8P7
C841		CD04BJ0J102M	P6P8
C842		C90-5647-05	E1E2E3
C842		C90-5647-05	E4X2X4
C842		C90-5647-05	Y3Y4
C843		CD04BJ1H010M	
C844		CK45FF1H103Z	
C845		CK73GB1H103K	
C851		CD04BJ1H100M	
C852		CC45FSL1H221J	
C853-855		CC73GCH1H221J	
C856,857		CK45FF1H103Z	
C858		CD04BJ1A101M	
C907		CK73GB1H103K	
C908		CK45FF1H103Z	
C909		CK73GB1H103K	Y3Y4
Δ J2		E03-0515-05	K5K6P5
Δ J2		E03-0515-05	K7K8P7
Δ J2		E03-0515-05	P6P8
Δ J2		E03-0515-05	Y3Y4
Δ J3		E03-0398-05	E2

Ref. No	New Parts	Parts No.	Destination
Δ J3		E03-0398-05	E3E4E1
Δ J5		E03-0325-05	X4X2
J20		E63-1388-05	
J21		E56-0060-05	
J64		E11-0983-05	
Δ F1		F05-4025-05	E1E2E3
Δ F1		F05-4025-05	E4X2X4
Δ F1		F05-4025-05	Y3Y4
Δ F1		F50-0078-05	K5K6P5
Δ F1		F50-0078-05	K7K8P7
Δ F1		F50-0078-05	
Δ F2		F06-1022-05	P6P8
Δ F2		F06-1022-05	E1E2E3
Δ F2		F06-1022-05	E4X2X4
Δ F2	*	F06-1022-05	Y3Y4
Δ F2	*	F50-0220-05	K5K6P5
Δ F2	*	F50-0220-05	K7K8P7
Δ F2	*	F50-0220-05	P6P8
Δ F3		F05-4025-05	Y3Y4
CN3,4		J13-0075-05	Y3Y4
CN11,12		J13-0075-05	
CN21,22		J13-0075-05	E1E2E3
CN21,22		J13-0075-05	E4X2X4
CN21,22		J13-0075-05	K7K8P7
CN21,22		J13-0075-05	
CN21,22		J13-0075-05	P8
E701		J11-0899-05	Y3Y4
E702,703		J11-0899-05	
L500		L92-0017-05	K5K6P5
L500		L92-0017-05	K7K8P7
L500		L92-0017-05	P6P8
Δ T1		L07-2758-05	X4X2
Δ T1		L07-2761-05	E2
Δ T1		L07-2761-05	E3E4E1
Δ T1		L07-2805-05	Y3Y4
Δ T1		L07-2809-05	K5K6P5
Δ T1		L07-2809-05	K7K8P7
Δ T1		L07-2809-05	P6P8
X701		L78-0725-05	
X811		L77-2002-05	E1E2X2
X811		L77-2002-05	E3E4X4
R1,2		RK73GB2A000JK	
R11,12		RK73EB2E000JK	
R51		RK73GB2A000JK	
R120		RK73GB2A102J	
Δ R410		RS14KB3D181J	
Δ R453		RD14NB2E1R0J	
Δ R454		RD14NB2E150J	Y3Y4
Δ R454		RD14NB2E270J	E1E2X2
Δ R454		RD14NB2E270J	E3E4X4
Δ R454		RD14NB2E270J	K5K6P5
Δ R454		RD14NB2E270J	
Δ R454		RD14NB2E270J	K7K8P7
Δ R454		RD14NB2E270J	P6P8
Δ R457		R92-1844-05	K5K6P5
Δ R457		R92-1844-05	K7K8P7
Δ R457		R92-1844-05	P6P8
Δ R458		RD14NB2E120J	Y3Y4
R501,502		RK73GB2A101J	
R503,504		RK73GB2A104J	
R505		RK73GB2A750J	
R506		RK73GB2A101J	
R507,508		RK73GB2A750J	
R509,510		RK73GB2A101J	
R514		RK73GB2A222J	
R515		RK73GB2A102J	
R516		RK73GB2A473J	
R517		RK73GB2A563J	
R518		RK73GB2A391J	
R521		RK73GB2A100J	K5K6P5
R521		RK73GB2A100J	K7K8P7
R521		RK73GB2A100J	P6P8
R530		RK73GB2A1R0J	
R531,532		RK73GB2A102J	
R533		RK73GB2A103J	
R534		RK73GB2A223J	
R535		RK73GB2A562J	

L: Scandinavia K: USA P: Canada R: Mexico C: China  
Y: PX(Far East,Hawaii) T: England E: Europe G: Germany V: China(Shanghai)  
Y: AAFES(Europe) X: Australia O: Russia H: Korea M: Other Areas

I: Malaysia

Δ indicates safety critical components.

# KRF-V8090D/X9090D/VR-9560/9080

## PARTS LIST

\* New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

11

Ref. No	New Parts	Parts No.	Desti-nation	Ref. No	New Parts	Parts No.	Desti-nation	Ref. No	New Parts	Parts No.	Desti-nation
R536,537 R538		RK73GB2A103J RK73GB2A223J		IC74		BU2090					
R539		RK73GB2A104J		IC78		LC75711NED					
R540		RK73GB2A101J		IC79	*	XC6202P502PRN					
R541		RK73GB2A474J		IC81		BU1924F	E1E2X2				
R542		RK73GB2A183J		IC81		BU1924F	E3E4X4				
R543,544		RK73GB2A103J		IC83		S-80840CNY-GZ	Y3Y4				
R545		RK73GB2A222J		IC84		S-80840CNY-GZ					
R776		RD14NB2E100J		IC90	*	MN101C49HYF	E3E4Y3				
R779		RK73GB2A333J		IC90	*	MN101C49HYF	K5K6P5				
R780		RD14NB2E100J		IC90	*	MN101C49HYF	K7K8P7				
R782		RK73GB2A303J		IC90	*	MN101C49HYF					
R801,802		RK73GB2A331J		IC90	*	MN101C49HYF	P6P8				
R803		RK73GB2A104J		IC90	*	MN101C49HYF	Y4X4				
R805		RK73GB2A104J		IC90	*	MN101C49HYH	E1E2X2				
R807,808		RK73GB2A103J		IC401		KIA7812API-UP					
R834		RD14NB2E332J	Y3Y4	IC402		KIA7912API-UP					
R847		RK73GB2A101J		IC501,502		BA4560F					
R894		RK73GB2A101J		Q451		2SC1740S(Q,R)					
R896-898		RK73GB2A101J		Q512		2SC4081(R,S)					
R910,911		RK73GB2A104J		Q731		DTC113ZSA					
R915		RK73GB2A101J		Q776		2SC1740S(Q,R)					
R922-924		RK73GB2A101J		Q777,778		DTC124ESA					
R926		RK73GB2A101J		Q841		2SC1740S(Q,R)					
R935		RK73GB2A101J		Q842		2SA933AS(Q,R)					
R938,939		RK73GB2A101J		Q843		DTC113ZSA					
R941-945		RK73GB2A101J		TH1		MF-R090-99					
R951,952		RK73GB2A104J		A791		W02-4599-05	E1E2E3				
R954		RK73GB2A104J		A791		W02-4599-05	E4X2X4				
R955,956		RK73GB2A101J		A791		W02-4599-05	Y3Y4				
R967-969		RK73GB2A104J									
R970		RK73GB2A153J									
R971,972		RK73GB2A104J									
R974,975		RK73GB2A104J									
△ R977		RK73GB2A123J	Y3Y4								
△ R977		RK73GB2A273J	E1E2X2								
△ R977		RK73GB2A273J	E3E4X4								
R993		RK73GB2A101J									
R997		RD14NB2E1R0J									
R999		RK73GB2A472J									
△ K451		S76-0107-05	K5K6P5								
△ K451		S76-0107-05	K7K8P7								
△ K451		S76-0107-05	P6P8								
△ K451		S76-0110-05	E1E2E3								
△ K451		S76-0110-05	E4X2X4								
△ K451		S76-0110-05	Y3Y4								
△ S1		S62-0001-05	Y3Y4								
△ S2		S68-0142-05	E1E2E3								
△ S2		S68-0142-05	E4X2X4								
△ S2		S68-0142-05	Y3Y4								
S701-708		S70-0086-05									
S716-725		S70-0086-05									
S731-733		S70-0086-05									
S761,762		T99-0696-05									
S763		T99-0664-05									
△ D401		D2SBA207009F01									
△ D451,452		1SS133									
△ D453		S1ZB20(7101)									
D454		1SS133									
D455		RB721Q									
D500,501	*	1SS302-F									
D503,504		1SS133									
D505	*	1SS302-F									
D776		MTZJ5.1(B)									
△ D791		1SS133									
D801-806		1SS133									
D831		1SS133	Y3Y4								
△ D841		RB721Q									
△ D842		1SS133									
△ D843		RB721Q									
D844		1SS133									
D846		1SS133									
D961-964		1SS133									
ED78		HNA-16MM55T									
△ IC45		BA05T									

L : Scandinavia  
Y : PX(Far East,Hawaii)  
Y : AAFES(Europe)

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X : Australia

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R : Mexico  
G : Germany  
H : Korea

C : China  
V : China(Shanghai)  
M : Other Areas

I : Malaysia

△ indicates safety critical components.

# KRF-V8090D/X9090D/VR-9560/9080

## SPECIFICATIONS

### AUDIO section

For VR-9080

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (20 ~ 20 kHz, 0.09 % T.H.D., at 8  $\Omega$  one channel driven) ..... 100 W + 100 W  
 CENTER (20 ~ 20 kHz, 0.09 % T.H.D., at 8  $\Omega$  one channel driven) ..... 100 W  
 SURROUND (20 ~ 20 kHz, 0.7 % T.H.D., at 8  $\Omega$  one channel driven) ..... 100 W + 100 W  
 SURROUND BACK (20 ~ 20 kHz, 0.7 % T.H.D., at 8  $\Omega$  one channel driven) ..... 100 W + 100 W

For KRF-X9090D

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

IEC (20 Hz ~ 20 kHz, 0.09% T.H.D., at 8  $\Omega$ ) ..... 100 W + 100 W  
 DIN (1 kHz at 8  $\Omega$ ) ..... 120 W + 120 W  
 Effective power output during STEREO operation (1 kHz, 10% T.H.D., at 8  $\Omega$ ) ..... 130 W + 130 W  
 Effective power output during SURROUND operation  
 FRONT  
 (20 Hz ~ 20 kHz, 0.09 % T.H.D., at 8  $\Omega$  one channel driven) ..... 100 W + 100 W  
 (1 kHz, 0.7 % T.H.D., at 8  $\Omega$  one channel driven) .. 120 W + 120 W  
 (1 kHz, 10 % T.H.D., at 8  $\Omega$  one channel driven) ... 130 W + 130 W  
 CENTER  
 (20 Hz ~ 20 kHz, 0.09 % T.H.D., at 8  $\Omega$  one channel driven) ..... 100 W  
 (1 kHz, 0.7 % T.H.D., at 8  $\Omega$  one channel driven) ..... 120 W  
 (1 kHz, 10 % T.H.D., at 8  $\Omega$  one channel driven) ..... 130 W  
 SURROUND  
 (20 Hz ~ 20 kHz, 0.7 % T.H.D., at 8  $\Omega$  one channel driven) ..... 100 W + 100 W  
 (1 kHz, 0.7 % T.H.D., at 8  $\Omega$  one channel driven) .. 120 W + 120 W  
 (1 kHz, 10 % T.H.D., at 8  $\Omega$  one channel driven) ... 130 W + 130 W  
 SURROUND BACK  
 (20 Hz ~ 20 kHz, 0.7 % T.H.D., at 8  $\Omega$  one channel driven) ..... 100 W + 100 W  
 (1 kHz, 0.7 % T.H.D., at 8  $\Omega$  one channel driven) .. 120 W + 120 W  
 (1 kHz, 10 % T.H.D., at 8  $\Omega$  one channel driven) ... 130 W + 130 W

common

Total harmonic distortion ..... 0.009 % (1 kHz, 50 W, 8  $\Omega$ )  
 Frequency response  
 CD/DVD ..... 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB  
 PHONO 'RIAA' response ..... 40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB  
 Maximum input level  
 PHONO (MM) ..... 40 mV, 1 % T.H.D., at 1 kHz  
 Signal to noise ratio (IHF'66)  
 PHONO (MM) ..... 75 dB  
 CD/DVD ..... 95 dB  
 Input sensitivity / impedance  
 PHONO (MM) ..... 4 mV / 47 k $\Omega$   
 CD/DVD, MD/TAPE, AV AUX, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH ..... 300 mV / 47 k $\Omega$   
 Output level / impedance  
 REC OUT (MD/TAPE) ..... 300 mV / 1 k $\Omega$   
 PRE OUT (FRONT) ..... 1 V / 500  $\Omega$   
 PRE OUT (CENTER) ..... 1 V / 500  $\Omega$   
 PRE OUT (SURROUND) ..... 1 V / 500  $\Omega$   
 PRE OUT (SURROUND BACK) ..... 1 V / 500  $\Omega$   
 PRE OUT (SUBWOOFER) ..... 1 V / 500  $\Omega$   
 Tone control  
 BASS .....  $\pm 10$  dB (at 100 Hz)  
 TREBLE .....  $\pm 10$  dB (at 10 kHz)  
 Loudness control  
 VOLUME at -30 dB level ..... +6 dB (100 Hz)

### DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz  
 Input level / impedance / wave length  
 Optical ..... -15 dBm ~ -24 dBm, 660 nm  $\pm 30$  nm  
 Coaxial ..... 0.5 Vp-p / 75  $\Omega$   
 Output level / impedance / wave length  
 Optical ..... -21 dBm ~ -15 dBm, 660 nm  $\pm 30$  nm

### VIDEO section

VIDEO inputs / outputs  
 VIDEO (composite) ..... 1 Vp-p / 75  $\Omega$   
 S VIDEO inputs / outputs  
 S VIDEO (luminance signal) ..... 1 Vp-p / 75  $\Omega$   
 S VIDEO (chrominance signal) ..... 0.286 Vp-p / 75  $\Omega$   
 COMPONENT VIDEO inputs / outputs  
 COMPONENT VIDEO (luminance signal) ..... 1 Vp-p / 75  $\Omega$   
 COMPONENT VIDEO (CB/CR-signal)  
 VR-9080 ..... 0.64 Vp-p / 75  $\Omega$   
 KRF-X9090D ..... 0.7 Vp-p / 75  $\Omega$

### FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108.0 MHz  
 Usable sensitivity (MONO)  
 VR-9080 ..... 1.3  $\mu$ V (75  $\Omega$ ) / 13.2 dBf (75 kHz dev, SINAD 30 dB)  
 KRF-X9090D ..... 1.6  $\mu$ V (75  $\Omega$ ) / 15.2 dBf (75 kHz dev, SINAD 30 dB)  
 50 dB quieting sensitivity  
 STEREO ..... 28  $\mu$ V (75  $\Omega$ ) / 40.2 dBf (75 kHz dev)  
 Total harmonic distortion  
 MONO (1 kHz, 75 kHz dev) ..... 0.5% (65 dBf input)  
 STEREO (1 kHz, 67.5 + 67.5 kHz dev) ..... 0.7% (65 dBf input)  
 Signal to noise ratio  
 MONO (1 kHz, 75 kHz dev) ..... 75 dB (65 dBf input)  
 STEREO (1 kHz, 67.5 + 67.5 kHz dev) ..... 68 dB (65 dBf input)  
 Stereo separation (1 kHz) ..... 40 dB  
 Selectivity ( $\pm 400$  kHz) VR-9080 ..... 70 dB  
 KRF-X9090D ..... 50 dB  
 Frequency response (30 Hz ~ 15 kHz) ..... +0.5 dB, -3.0 dB

### AM tuner section

Tuning frequency range  
 10 kHz step (VR-9080) ..... 530 kHz ~ 1,700 kHz  
 10 kHz step (KRF-X9090D) ..... 530 kHz ~ 1,610 kHz  
 9 kHz step (KRF-X9090D) ..... 531 kHz ~ 1,602 kHz  
 Usable sensitivity (30% mod, S/N 20 dB) ..... 16  $\mu$ V / (600  $\mu$ V/m)  
 Signal to noise ratio (30% mod, 400 Hz)  
 ..... 50 dB (60 dB $\mu$ V EMF input)

### GENERAL

Power consumption VR-9080 ..... 3.4 A  
 KRF-X9090D ..... 300 W  
 Standby Power consumption ..... less than 2.0 W  
 AC outlet (SWITCHED)  
 VR-9080 ..... total 150 W, 1.25 A max.  
 KRF-X9090D ..... total 90 W max.  
 Dimensions ..... W : 440 mm (17-5/16")  
 H : 166 mm (6-9/16")  
 D : 396 mm (15-9/16")  
 Weight (Net) ..... 12.1 kg (26.7 lb)

### Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

